Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031219\
Data File : VL033275.D
Acq On : 12 Mar 2019 4:15
Operator : SY/AP
Sample : VSTDICC0.5
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 12 07:01:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031219AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Mar 1
QLast Update : Tue Mar 12 04:49:55 2019
Response via : Initial Calibration

Instrument : MSVOA_L
ClientSampleId : VSTDICC0.5

Manual Integrations APPROVED
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3/14/2019 5:05:42 AM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	926308	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2145350	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2134827	10.00	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1671396	9.78	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 97.80%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.08	85	103400	0.538	ppbv	90
3) Chlorodifluoromethane	3.02	51	60564	0.519	ppbv	95
4) Chloromethane	3.17	50	29360	0.478	ppbv	93
5) Vinyl Chloride	3.29	62	29472	0.496	ppbv	91
6) Bromomethane	3.52	94	18552	0.493	ppbv	89
7) Chloroethane	3.60	64	10495	0.478	ppbv	96
8) Dichlorotetrafluoroethane	3.22	85	77408	0.509	ppbv	97
9) Propene	3.04	41	24610	0.474	ppbv	98
10) Heptane	8.25	43	62788	0.510	ppbv	97
11) Trichlorofluoromethane	4.01	101	82488	0.513	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.55	101	56090	0.555	ppbv	99
13) Ethanol	3.66	45	11506m	0.795	ppbv	
14) Bromoethene	3.79	108	22295m	0.535	ppbv	
15) Acetone	3.92	43	66888	0.580	ppbv	100
16) 1,3-Butadiene	3.36	39	22681	0.456	ppbv	99
17) tert-Butyl alcohol	4.38	59	9890	0.546	ppbv	99
18) 1,1-Dichloroethene	4.35	96	24357	0.550	ppbv	90
19) Isopropyl Alcohol	4.04	45	39800	0.575	ppbv #	95
20) Methylene Chloride	4.41	84	27333	0.600	ppbv	95
21) Allyl Chloride	4.48	41	33750	0.506	ppbv	91
22) trans-1,2-Dichloroethene	4.97	96	23475	0.497	ppbv	96
23) Vinyl Acetate	5.16	43	81665	0.511	ppbv #	93
24) 1,1-Dichloroethane	5.09	63	65873	0.543	ppbv	96
25) Ethyl Acetate	5.78	43	114535	0.543	ppbv	99
26) Hexane	5.78	57	53650	0.539	ppbv	94
27) Carbon Disulfide	4.62	76	49939	0.496	ppbv	98
28) Methyl tert-Butyl Ether	5.13	73	69409	0.529	ppbv	99
29) Chloroform	5.84	83	79481	0.525	ppbv	89
30) Cyclohexane	7.25	84	37536	0.502	ppbv	86
31) cis-1,2-Dichloroethene	5.64	61	46935	0.499	ppbv	96
32) 1,1,1-Trichloroethane	6.62	97	73443	0.515	ppbv	96
34) 2-Butanone	5.34	43	72362	0.544	ppbv	99
35) Carbon Tetrachloride	7.14	117	72638	0.494	ppbv	91
36) Benzene	7.00	78	96822	0.511	ppbv	98
37) 1,2-Dichloroethane	6.41	62	62278	0.514	ppbv	98
38) Trichloroethene	7.96	130	36632	0.511	ppbv	88
39) 1,2-Dichloropropane	7.73	63	37599	0.518	ppbv	95
40) 1,4-Dioxane	8.00	88	14142m	0.532	ppbv	
41) Tetrahydrofuran	6.17	42	33770	0.449	ppbv	96
42) Bromodichloromethane	7.91	83	80122m	0.496	ppbv	
43) Methyl Methacrylate	8.14	69	34690	0.468	ppbv	93

Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031219\
Data File : VL033275.D
Acq On : 12 Mar 2019 4:15
Operator : SY/AP
Sample : VSTDICC0.5
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 12 07:01:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031219AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Mar 1
QLast Update : Tue Mar 12 04:49:55 2019
Response via : Initial Calibration

Instrument : MSVOA_L
ClientSampleId : VSTDICC0.5

Manual Integrations APPROVED
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3/14/2019 5:05:42 AM

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	171618	0.525	ppbv		97
45) t-1,3-Dichloropropene	9.42	75	36834m	0.410	ppbv		
46) cis-1,3-Dichloropropene	8.83	75	46127	0.436	ppbv	#	88
47) 1,1,2-Trichloroethane	9.61	97	40899	0.525	ppbv		88
48) Dibromochloromethane	10.45	129	58695	0.460	ppbv		98
49) Bromoform	13.20	173	43309m	0.378	ppbv		
50) 4-Methyl-2-Pentanone	8.89	43	97563m	0.498	ppbv		
51) 2-Hexanone	10.29	43	67064	0.459	ppbv	#	98
52) Tetrachloroethene	11.37	164	37332m	0.539	ppbv		
53) Toluene	9.94	91	99674	0.470	ppbv		100
54) 1,2-Dibromoethane	10.76	107	57625	0.472	ppbv		85
56) 1,1,1,2-Tetrachloroethane	12.28	131	45338	0.508	ppbv	#	1
57) Chlorobenzene	12.30	112	86792	0.553	ppbv	#	88
58) Ethyl Benzene	12.86	91	143409m	0.495	ppbv		
59) m/p-Xylene	13.15	91	248270m	0.948	ppbv		
60) o-Xylene	13.85	91	122545	0.485	ppbv		97
61) Styrene	13.68	104	72954m	0.423	ppbv		
62) Isopropylbenzene	14.82	105	167687	0.497	ppbv		99
63) 1,1,2,2-Tetrachloroethane	13.84	83	80907	0.497	ppbv		96
64) n-propylbenzene	15.72	120	38918m	0.471	ppbv		
65) tert-Butylbenzene	16.91	119	136551	0.481	ppbv		99
66) Benzyl Chloride	17.16	91	36422m	0.344	ppbv		
67) sec-Butylbenzene	17.46	105	191657	0.476	ppbv		99
69) p-Isopropyltoluene	17.81	119	145995	0.446	ppbv		97
70) n-Butylbenzene	18.72	91	158537	0.447	ppbv		98
71) 2-Chlorotoluene	15.62	91	122696	0.487	ppbv		98
72) 4-Ethyltoluene	16.00	105	119140	0.454	ppbv		97
73) 1,3,5-Trimethylbenzene	16.16	105	112984m	0.452	ppbv		
74) 1,2,4-Trimethylbenzene	16.92	105	119279	0.457	ppbv		96
75) 1,3-Dichlorobenzene	17.16	146	73832	0.480	ppbv		94
76) 1,4-Dichlorobenzene	17.30	146	71615	0.474	ppbv		94
77) 1,2-Dichlorobenzene	17.99	146	71008	0.478	ppbv		96
78) Hexachloro-1,3-Butadiene	23.55	225	59153m	0.525	ppbv		
79) Naphthalene	22.43	128	74310m	0.261	ppbv		
80) Naphthalene,2-methyl-	25.13	142	1440m	0.021	ppbv		
81) 1,2,4-Trichlorobenzene	22.14	180	51715m	0.351	ppbv		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031219\
Data File : VL033275.D
Acq On : 12 Mar 2019 4:15
Operator : SY/AP
Sample : VSTDICC0.5
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 12 07:01:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031219AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Mar
QLast Update : Tue Mar 12 04:49:55 2019
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
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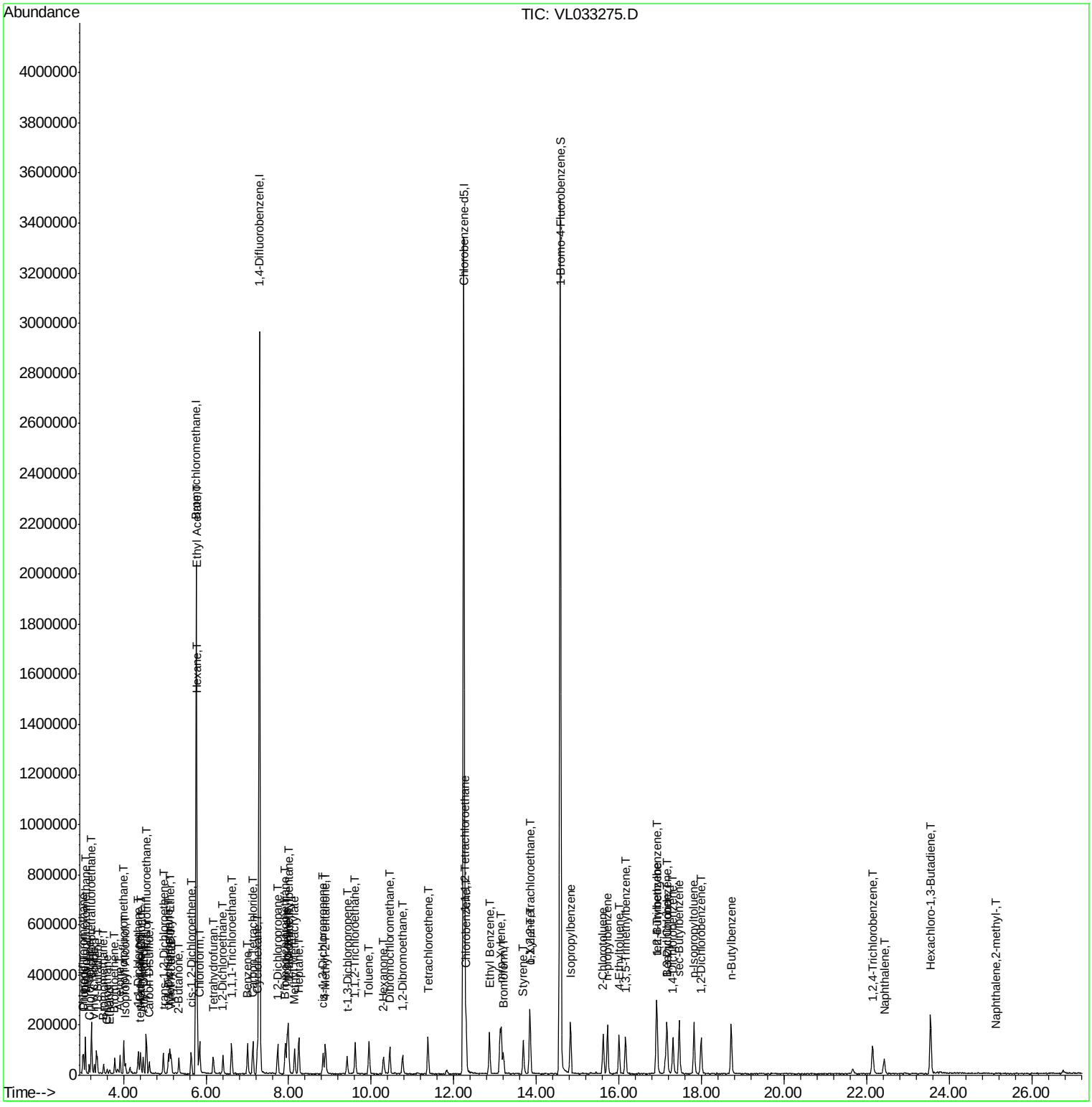
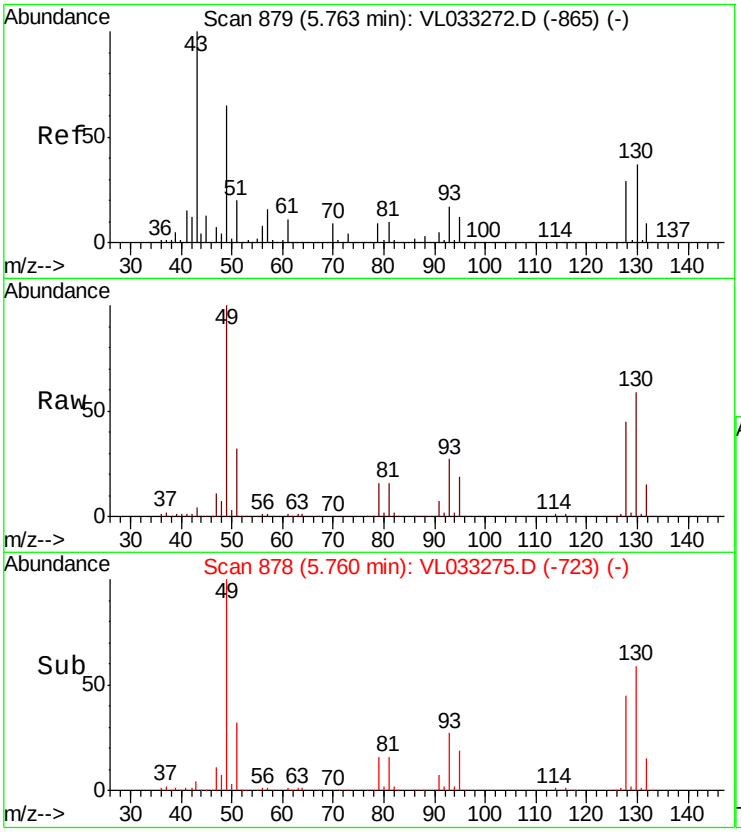
3/14/2019 5:05:42 AM

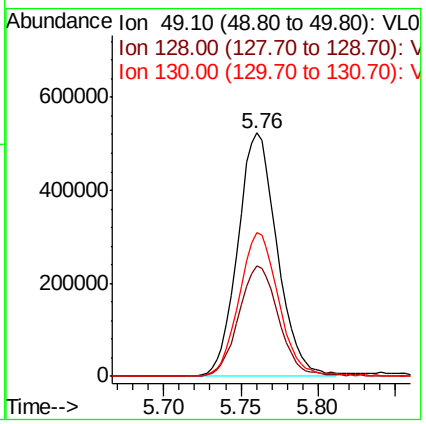




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.76 min Scan# 878
Delta R.T. -0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 49 Resp: 926308

Ion	Ratio	Lower	Upper
49	100		
128	46.6	23.3	69.9
130	60.1	30.0	90.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
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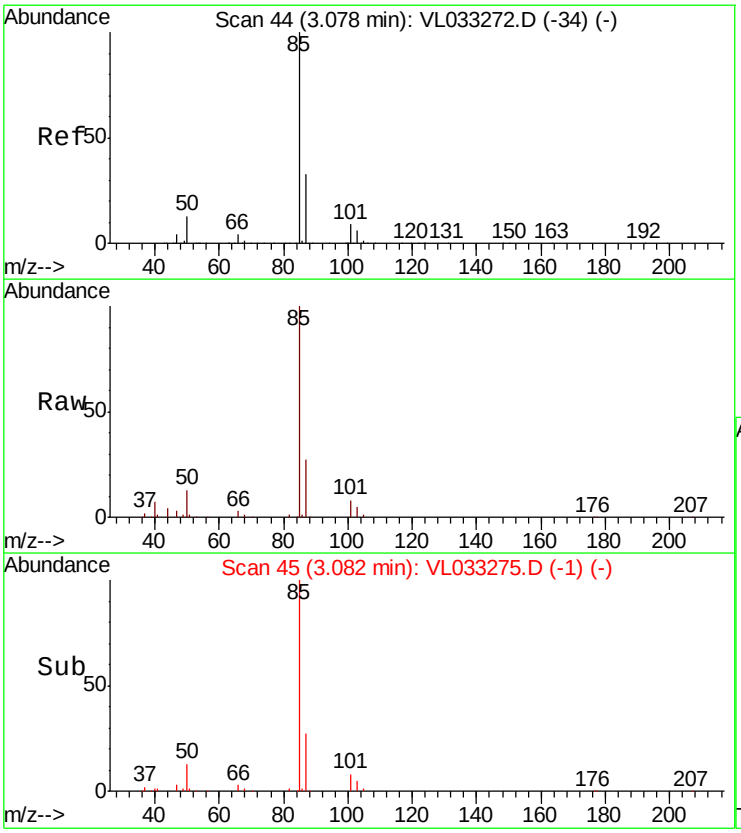
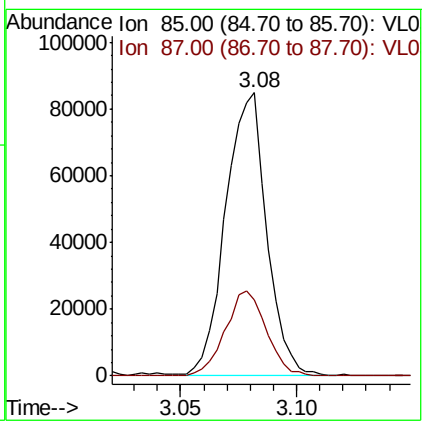
3/14/2019 5:05:42 AM

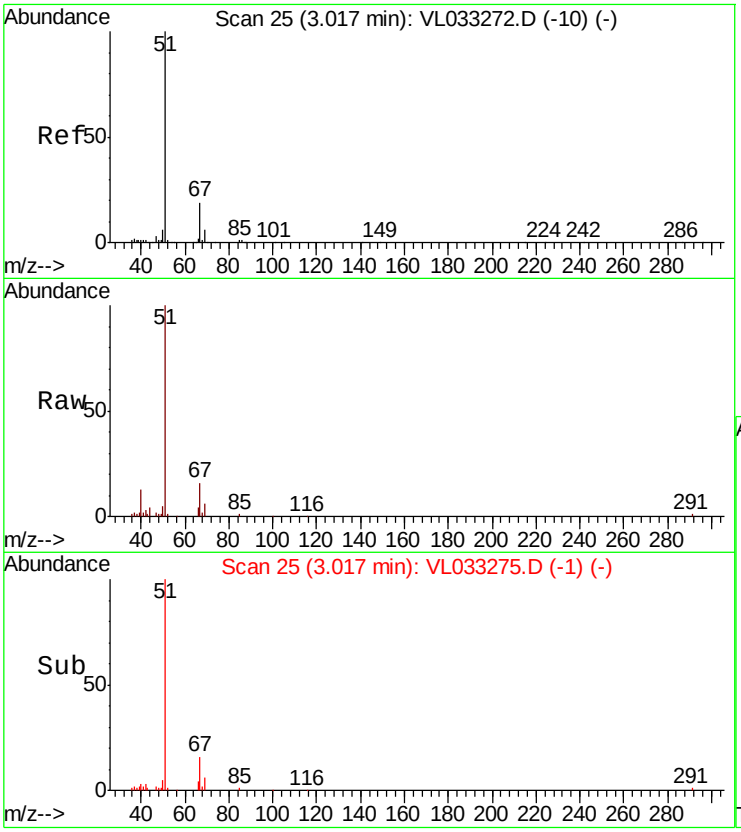


#2
Dichlorodifluoromethane
Concen: 0.538 ppbv
RT: 3.08 min Scan# 45
Delta R.T. 0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 85 Resp: 103400

Ion	Ratio	Lower	Upper
85	100		
87	27.1	26.4	39.6





#3
Chlorodifluoromethane
Concen: 0.519 ppbv
RT: 3.02 min Scan# 25
Delta R.T. 0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 51 Resp: 60564

Ion	Ratio	Lower	Upper
51	100		
67	16.6	15.0	22.4

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
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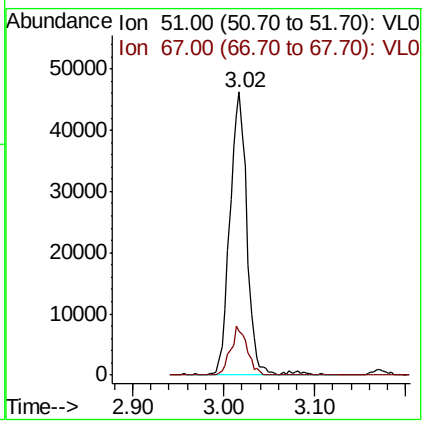
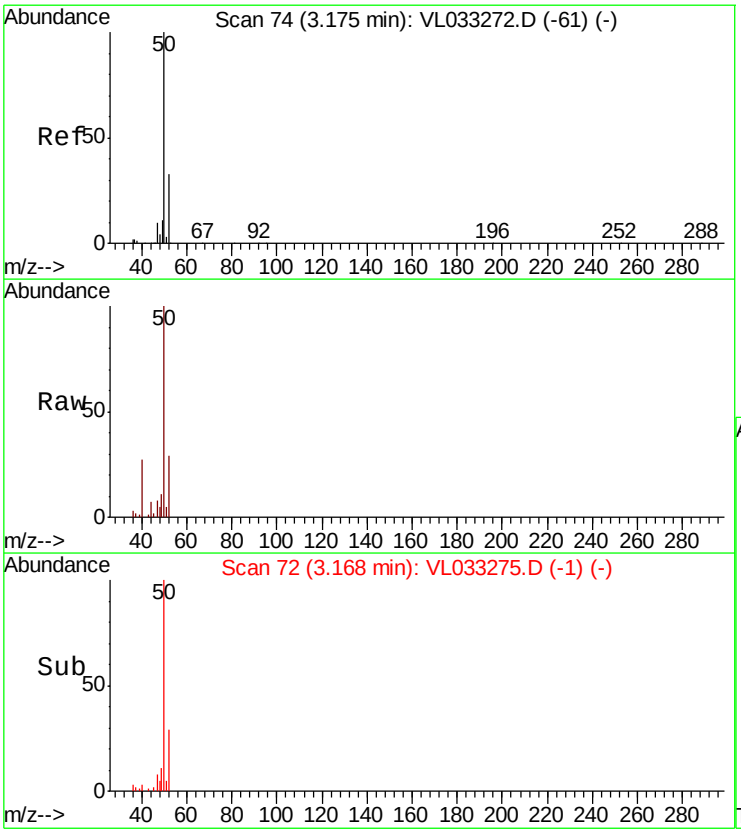
3/14/2019 5:05:42 AM

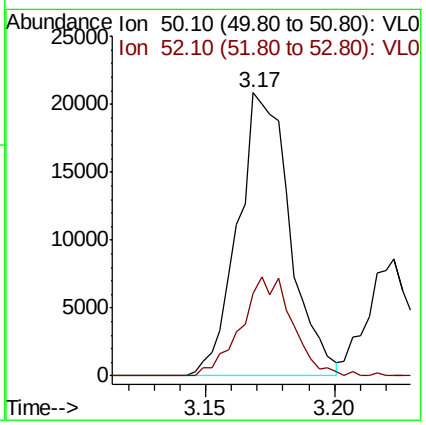


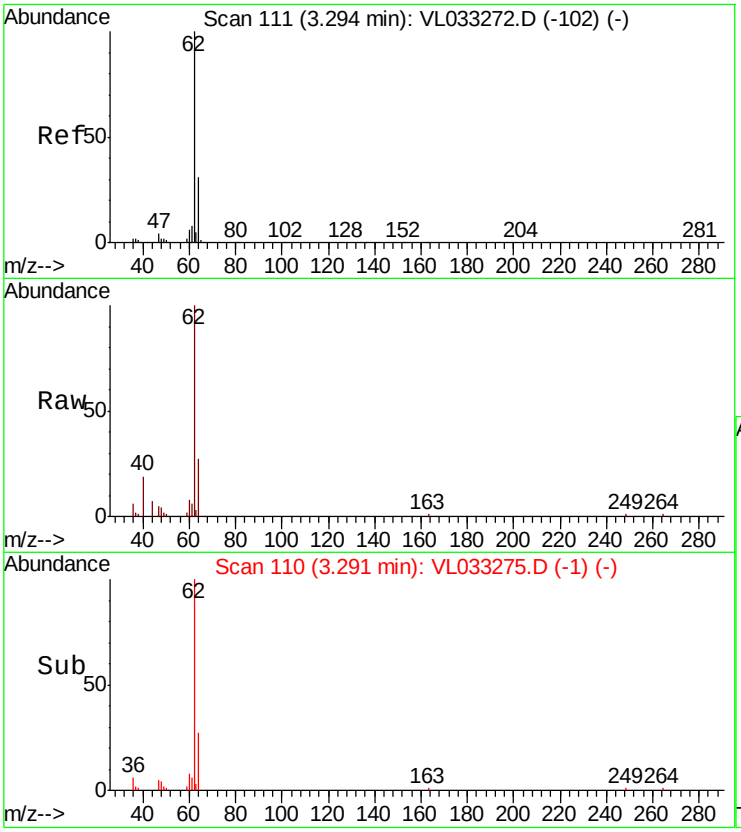


#4
Chloromethane
Concen: 0.478 ppbv
RT: 3.17 min Scan# 72
Delta R.T. -0.01 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 50 Resp: 29360

Ion	Ratio	Lower	Upper
50	100		
52	29.0	26.6	39.8

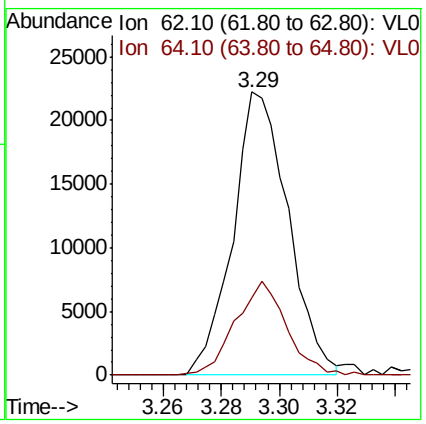




#5
Vinyl Chloride
Concen: 0.496 ppbv
RT: 3.29 min Scan# 110
Delta R.T. -0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 62 Resp: 29472

Ion	Ratio	Lower	Upper
62	100		
64	25.8	24.5	36.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
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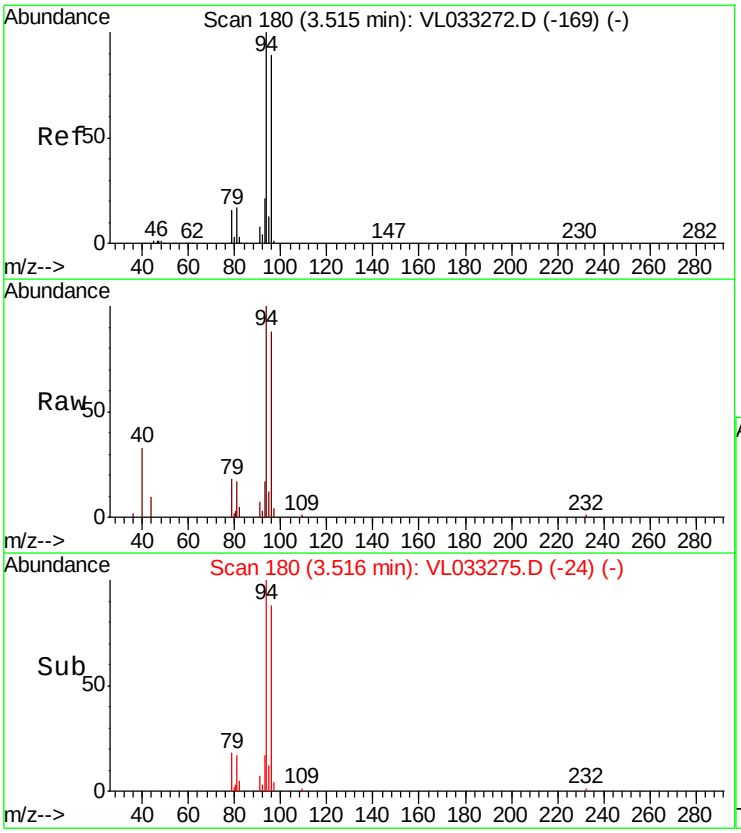
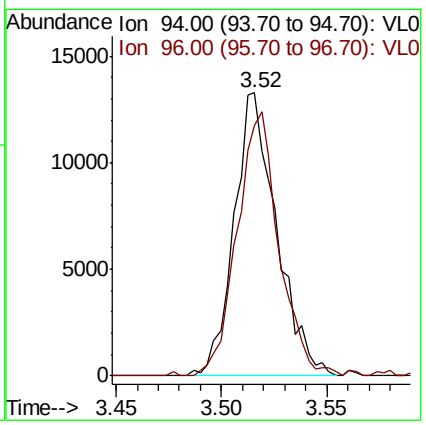
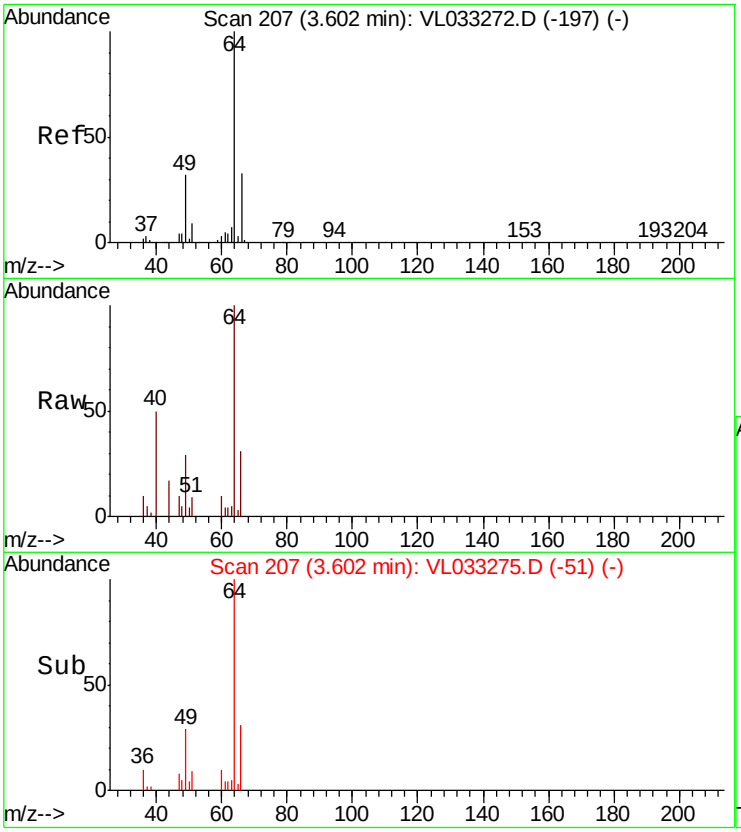


#6
Bromomethane
Concen: 0.493 ppbv
RT: 3.52 min Scan# 180
Delta R.T. 0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 94 Resp: 18552

Ion	Ratio	Lower	Upper
94	100		
96	79.0	71.3	106.9

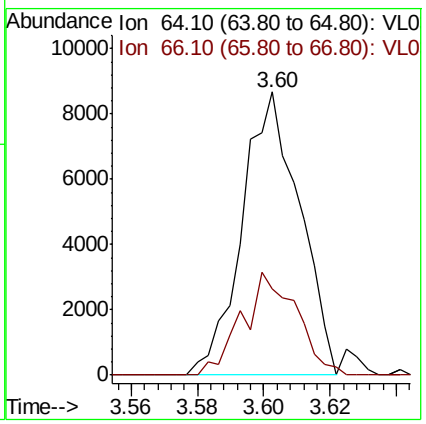




#7
Chloroethane
Concen: 0.478 ppbv
RT: 3.60 min Scan# 207
Delta R.T. 0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

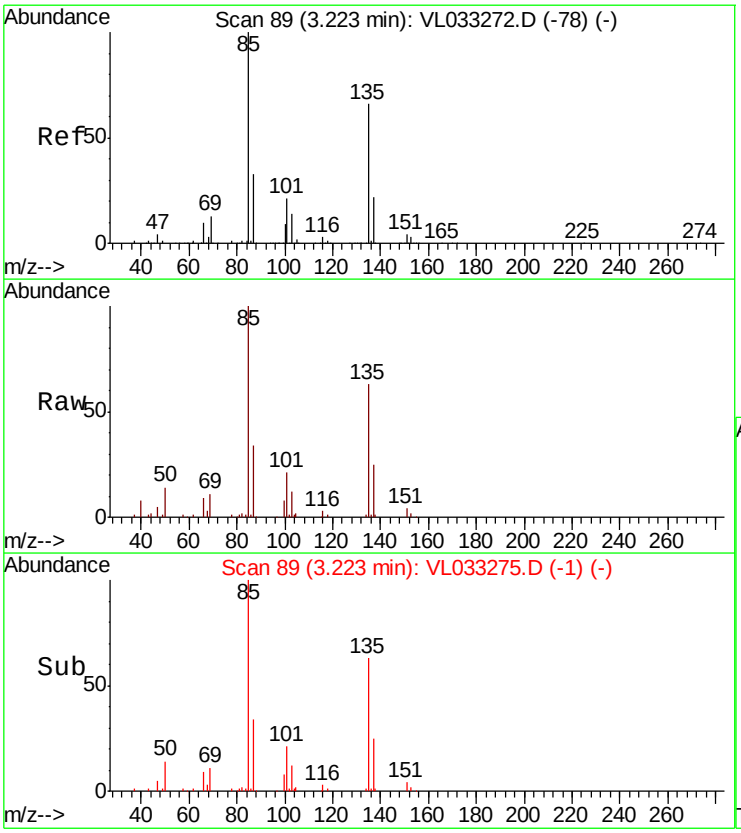
Tgt Ion: 64 Resp: 10495

Ion	Ratio	Lower	Upper
64	100		
66	30.6	26.2	39.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

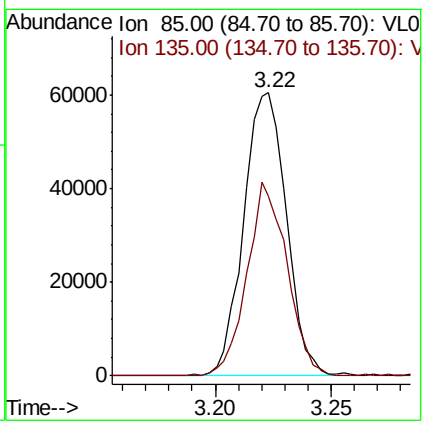
Manual Integrations APPROVED
MMDadoda
3/14/2019 5:05:42 AM

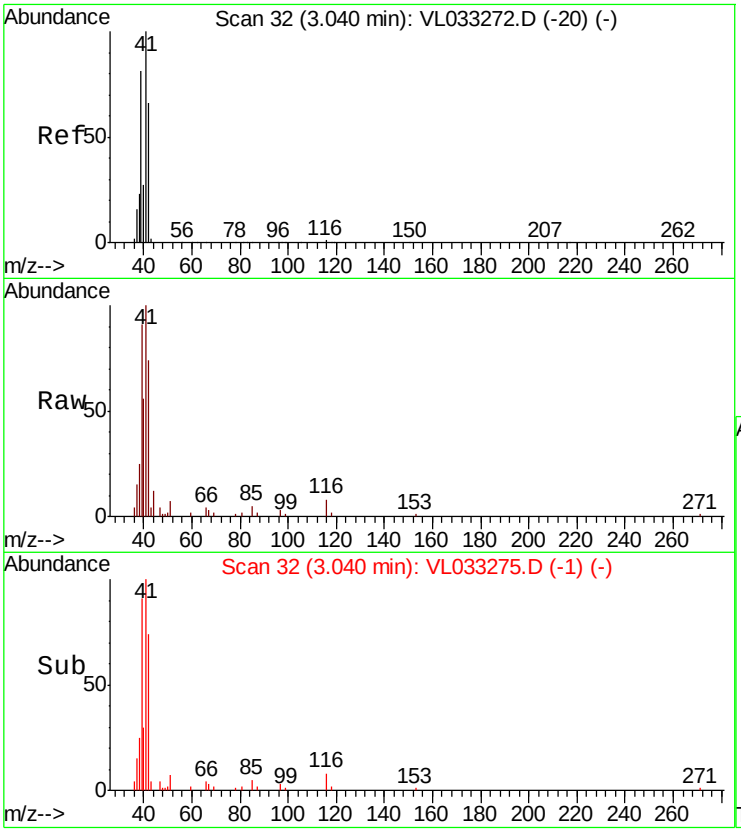


#8
Dichlorotetrafluoroethane
Concen: 0.509 ppbv
RT: 3.22 min Scan# 89
Delta R.T. 0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 85 Resp: 77408

Ion	Ratio	Lower	Upper
85	100		
135	64.2	53.4	80.2

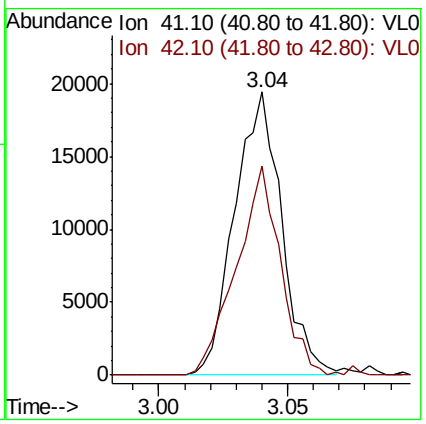




#9
Propene
Concen: 0.474 ppbv
RT: 3.04 min Scan# 32
Delta R.T. 0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 41 Resp: 24610

Ion	Ratio	Lower	Upper
41	100		
42	70.1	54.6	82.0



Instrument :
MSVOA_L
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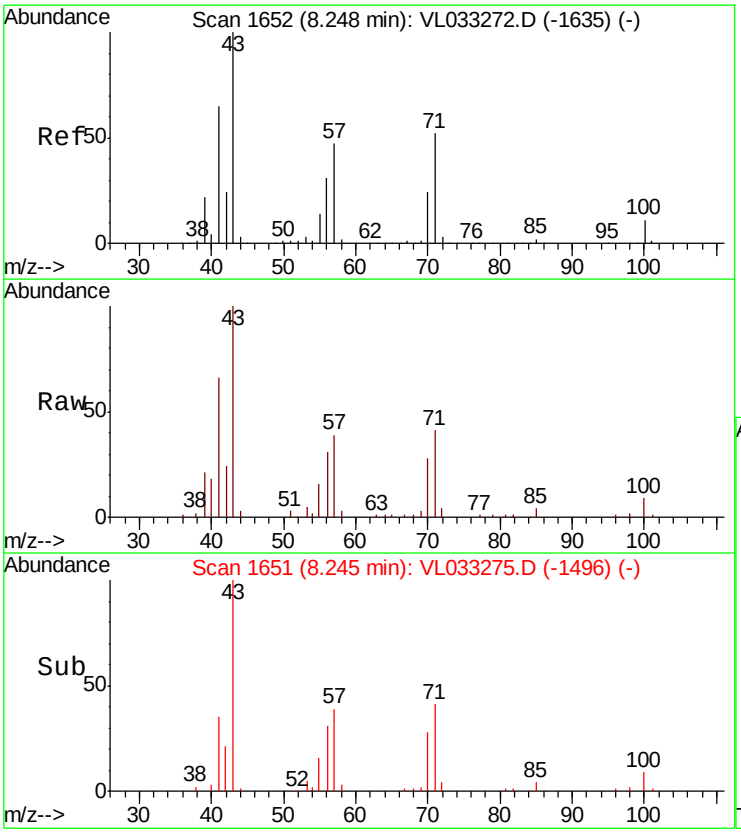
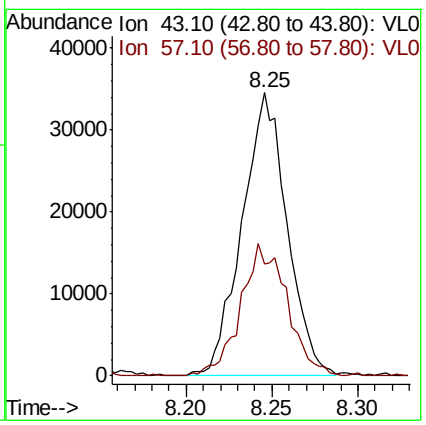
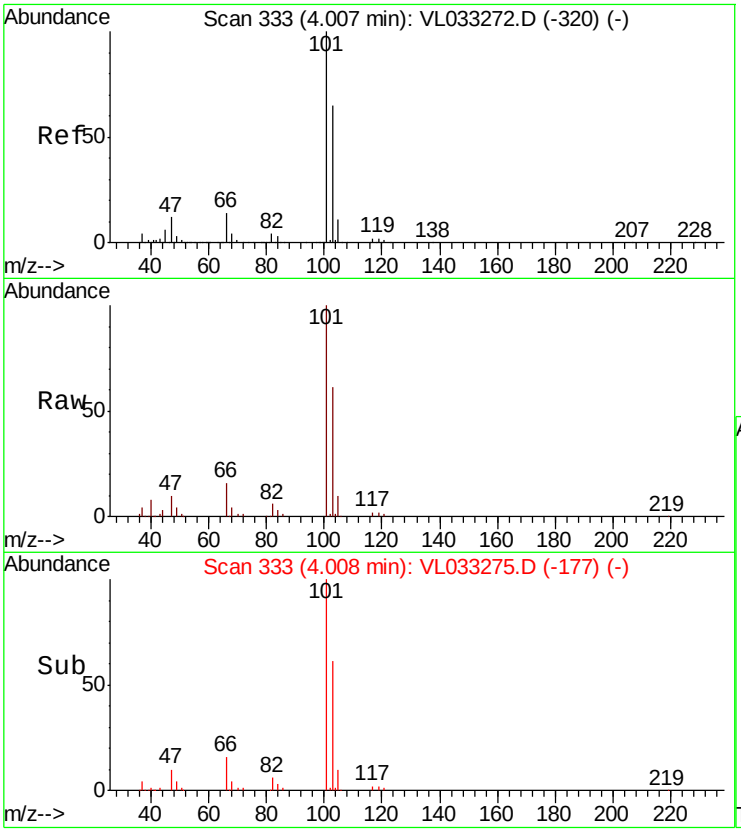


#10
Heptane
Concen: 0.510 ppbv
RT: 8.25 min Scan# 1651
Delta R.T. -0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 43 Resp: 62788

Ion	Ratio	Lower	Upper
43	100		
57	47.9	39.8	59.8





#11
Trichlorofluoromethane
Concen: 0.513 ppbv
RT: 4.01 min Scan# 333
Delta R.T. 0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion:101 Resp: 82488

Ion	Ratio	Lower	Upper
101	100		
103	60.3	51.8	77.8

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
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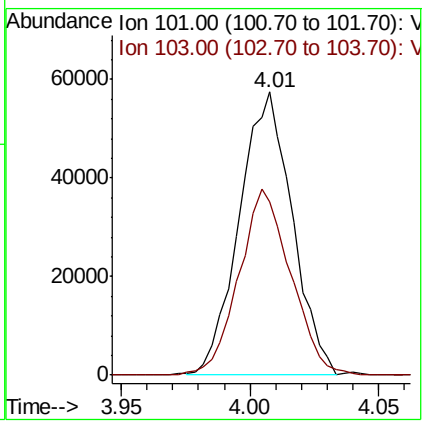
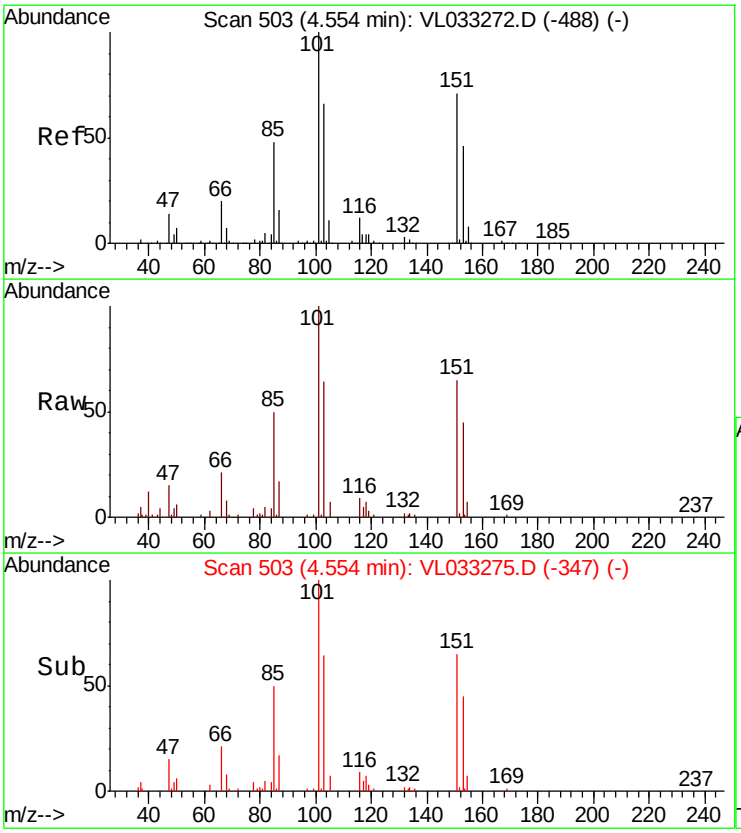
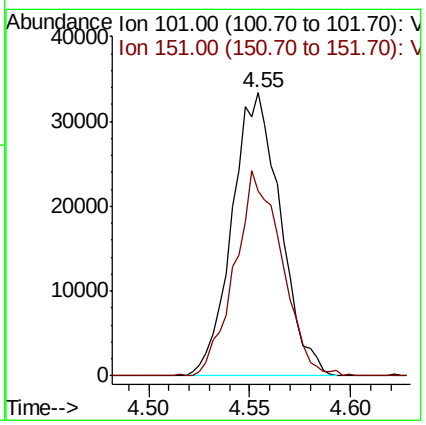


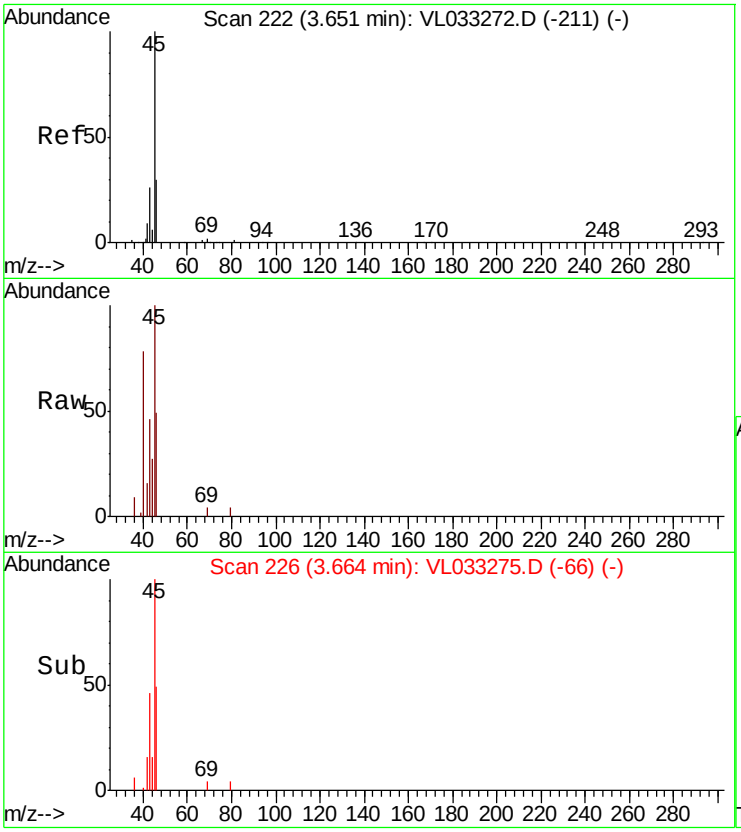


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.555 ppbv
RT: 4.55 min Scan# 503
Delta R.T. 0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion:101 Resp: 56090

Ion	Ratio	Lower	Upper
101	100		
151	70.3	56.9	85.3





#13
Ethanol
Concen: 0.795 ppbv m
RT: 3.66 min Scan# 226
Delta R.T. 0.01 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 45 Resp: 11506

Ion	Ratio	Lower	Upper
45	100		
46	48.5	13.9	55.7

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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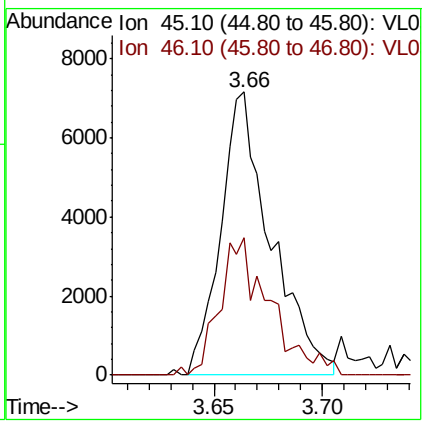
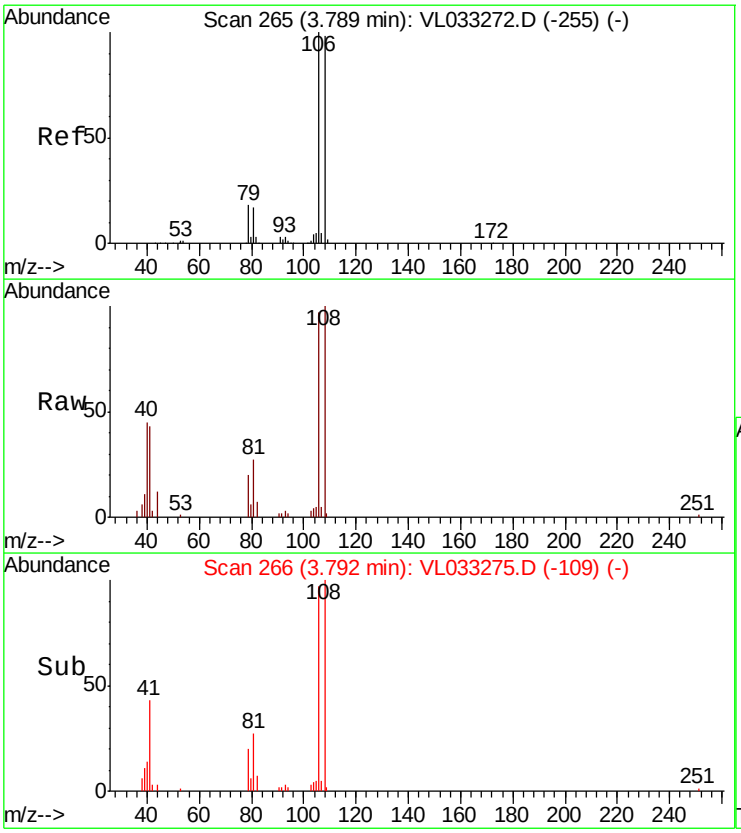
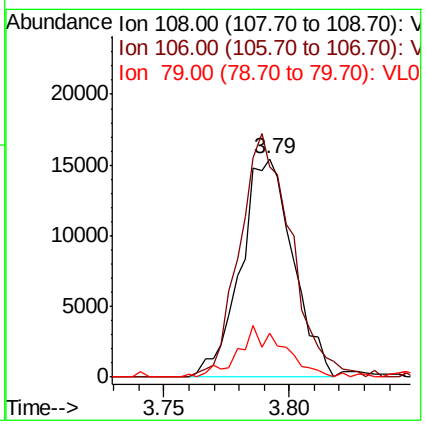


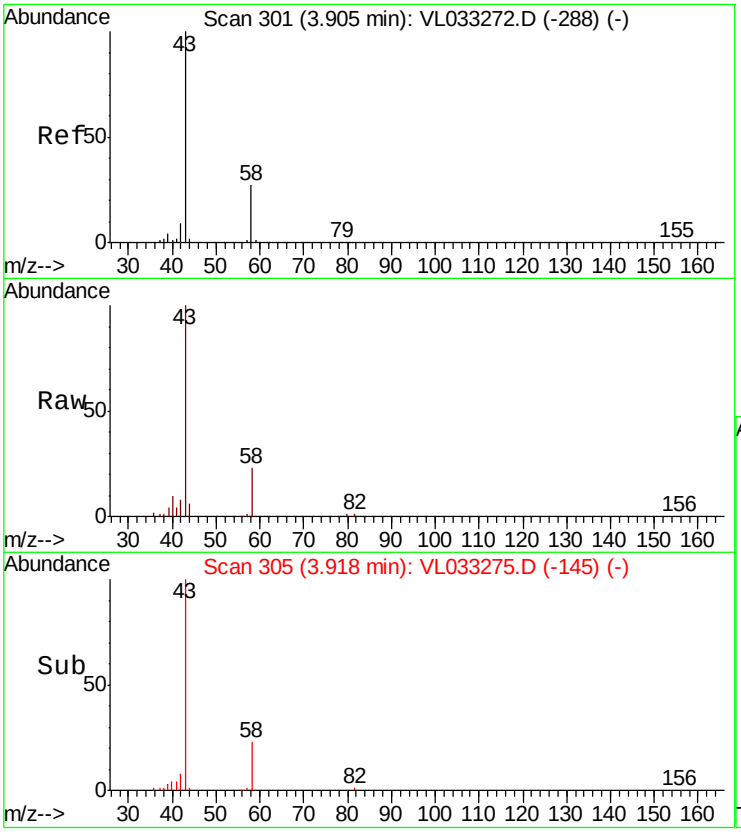


#14
Bromoethene
Concen: 0.535 ppbv m
RT: 3.79 min Scan# 266
Delta R.T. 0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion:108 Resp: 22295

Ion	Ratio	Lower	Upper
108	100		
106	0.0	85.9	128.9#
79	21.2	14.9	22.3





#15
Acetone
Concen: 0.580 ppbv
RT: 3.92 min Scan# 305
Delta R.T. 0.01 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 43 Resp: 66888

Ion	Ratio	Lower	Upper
43	100		
58	26.5	21.1	31.7

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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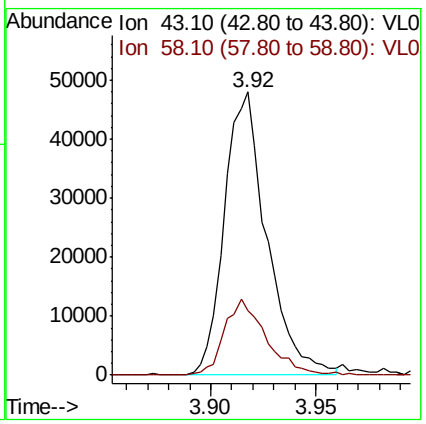
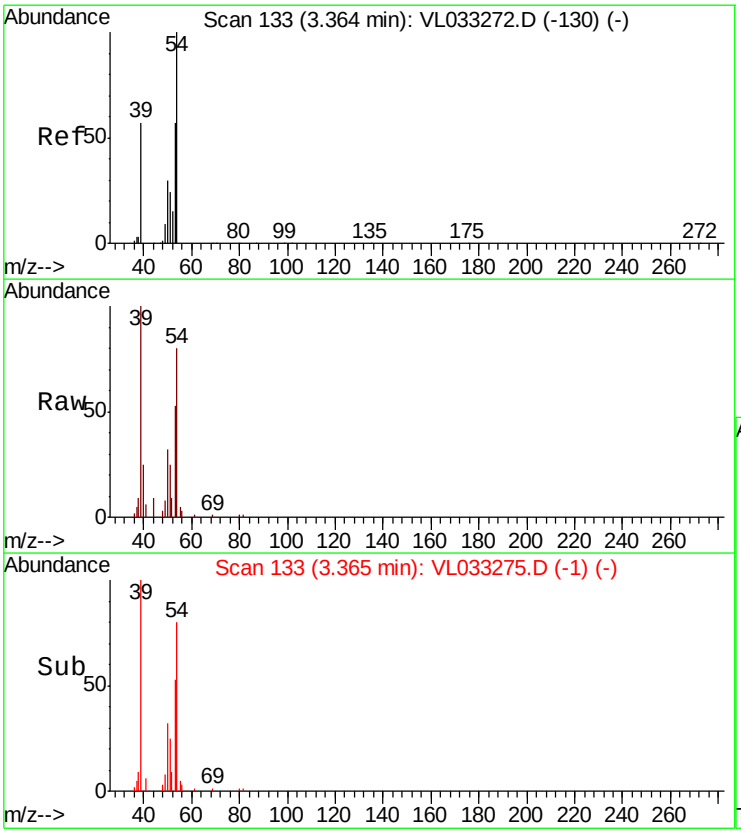
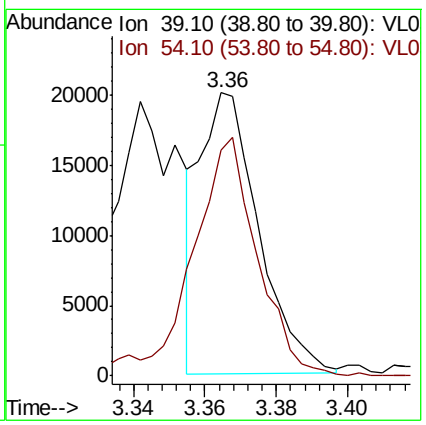


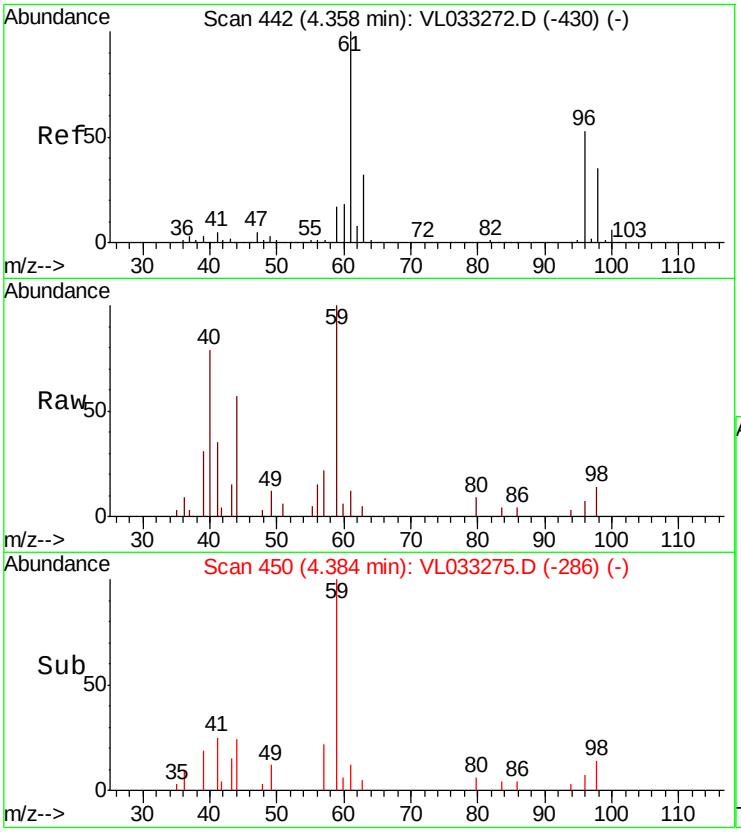


#16
1,3-Butadiene
Concen: 0.456 ppbv
RT: 3.36 min Scan# 133
Delta R.T. 0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 39 Resp: 22681

Ion	Ratio	Lower	Upper
39	100		
54	94.6	76.6	114.8

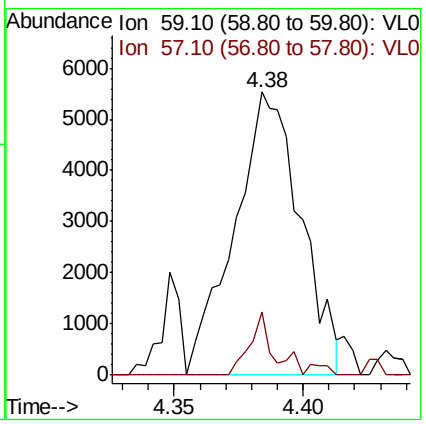




#17
tert-Butyl alcohol
Concen: 0.546 ppbv
RT: 4.38 min Scan# 450
Delta R.T. 0.03 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 59 Resp: 9890

Ion	Ratio	Lower	Upper
59	100		
57	9.0	7.5	11.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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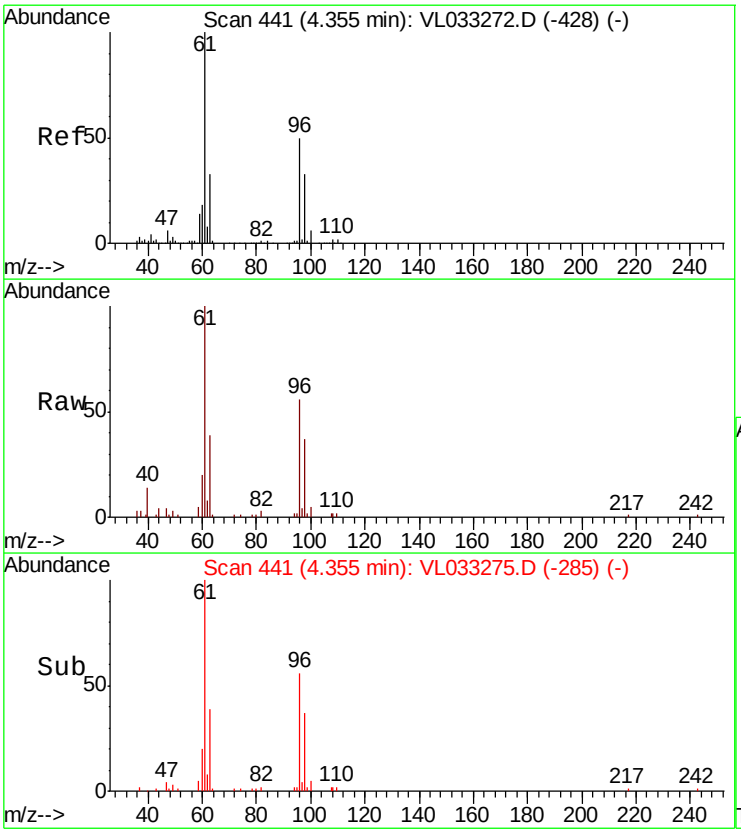
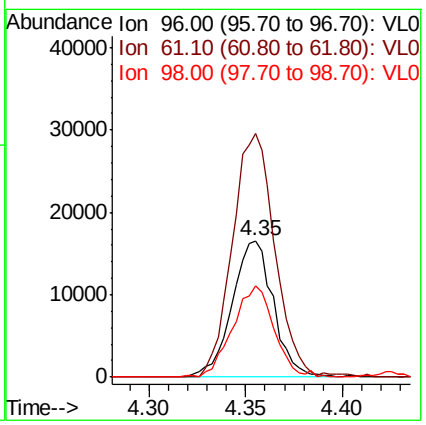
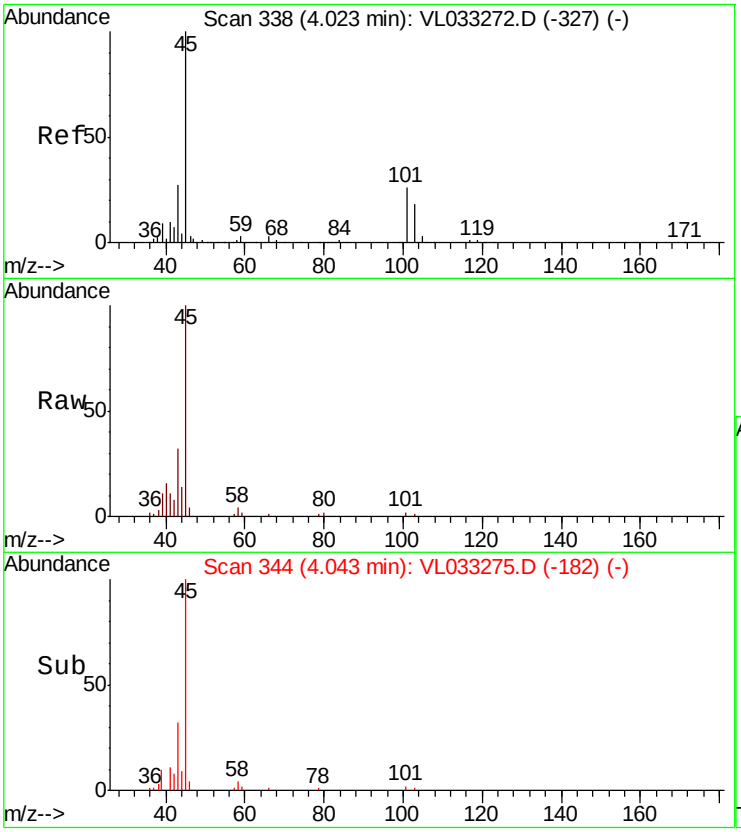


#18
1,1-Dichloroethene
Concen: 0.550 ppbv
RT: 4.35 min Scan# 441
Delta R.T. 0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 96 Resp: 24357

Ion	Ratio	Lower	Upper
96	100		
61	178.3	158.9	238.3
98	66.6	52.4	78.6

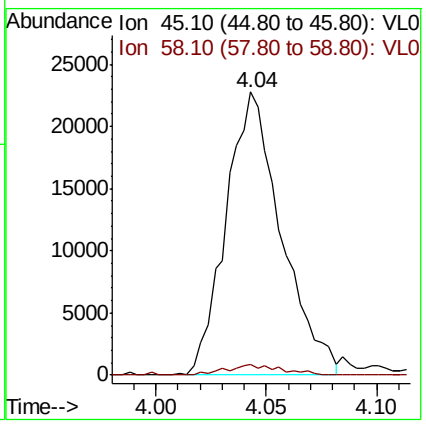




#19
Isopropyl Alcohol
Concen: 0.575 ppbv
RT: 4.04 min Scan# 344
Delta R.T. 0.02 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 45 Resp: 39800

Ion	Ratio	Lower	Upper
45	100		
58	3.7	1.4	2.2#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
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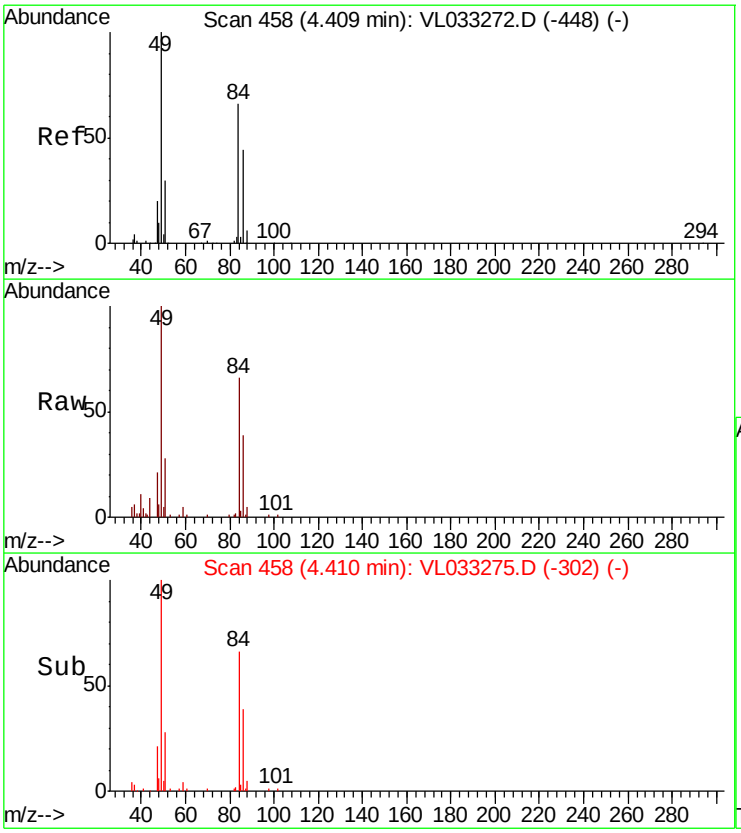
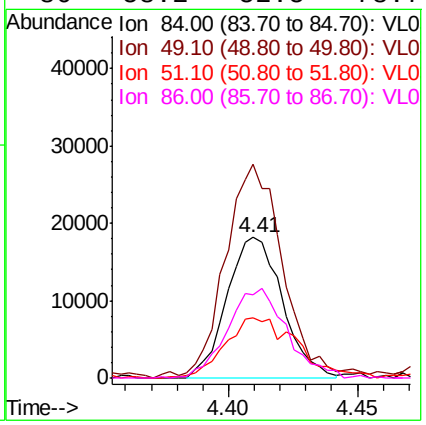
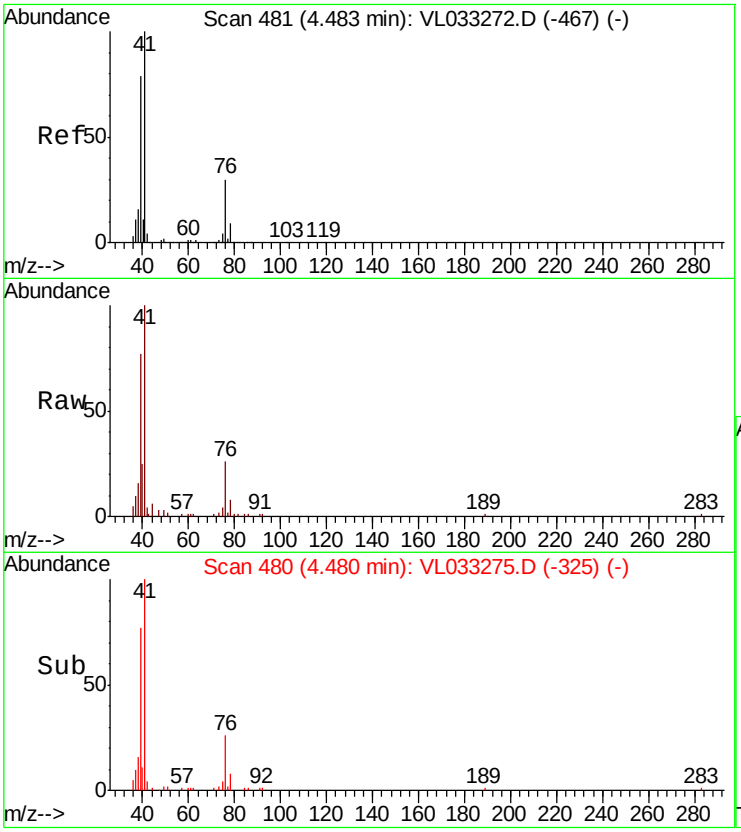


#20
Methylene Chloride
Concen: 0.600 ppbv
RT: 4.41 min Scan# 458
Delta R.T. 0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 84 Resp: 27333

Ion	Ratio	Lower	Upper
84	100		
49	148.1	120.3	180.5
51	41.1	36.2	54.4
86	58.2	52.5	78.7

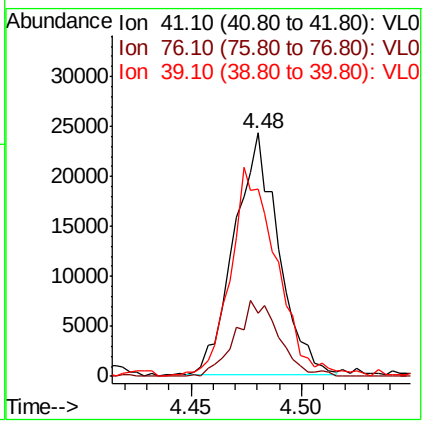




#21
Allyl Chloride
Concen: 0.506 ppbv
RT: 4.48 min Scan# 480
Delta R.T. -0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 41 Resp: 33750

Ion	Ratio	Lower	Upper
41	100		
76	31.0	25.0	37.4
39	91.1	64.2	96.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
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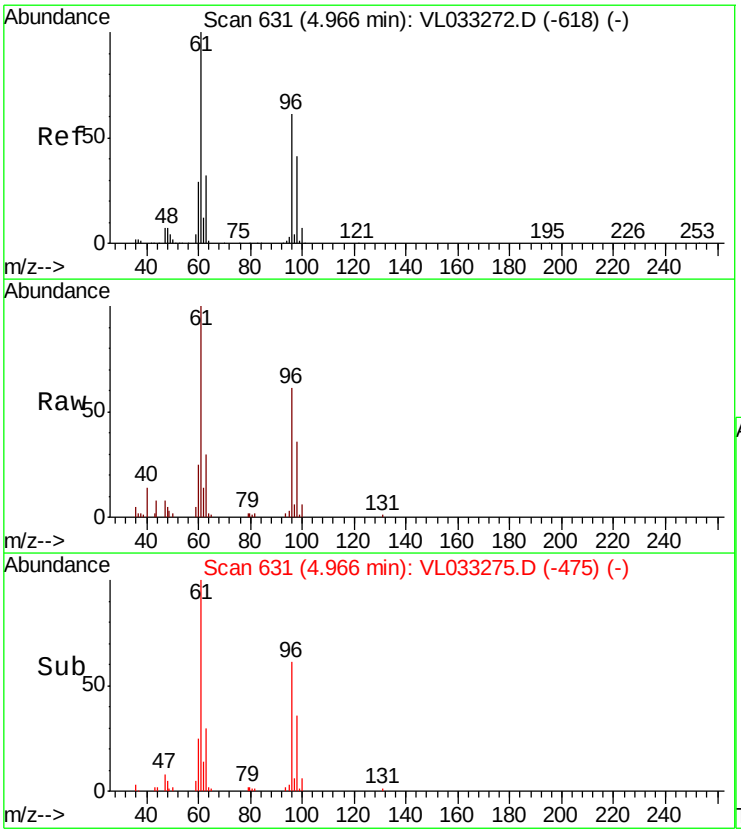
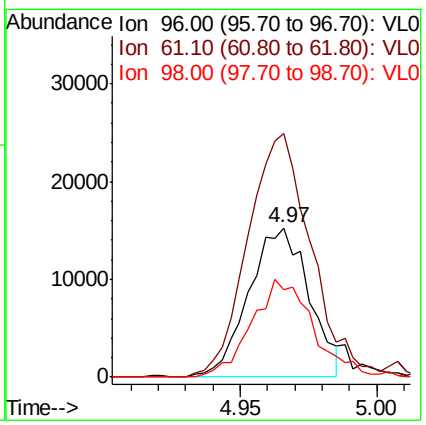
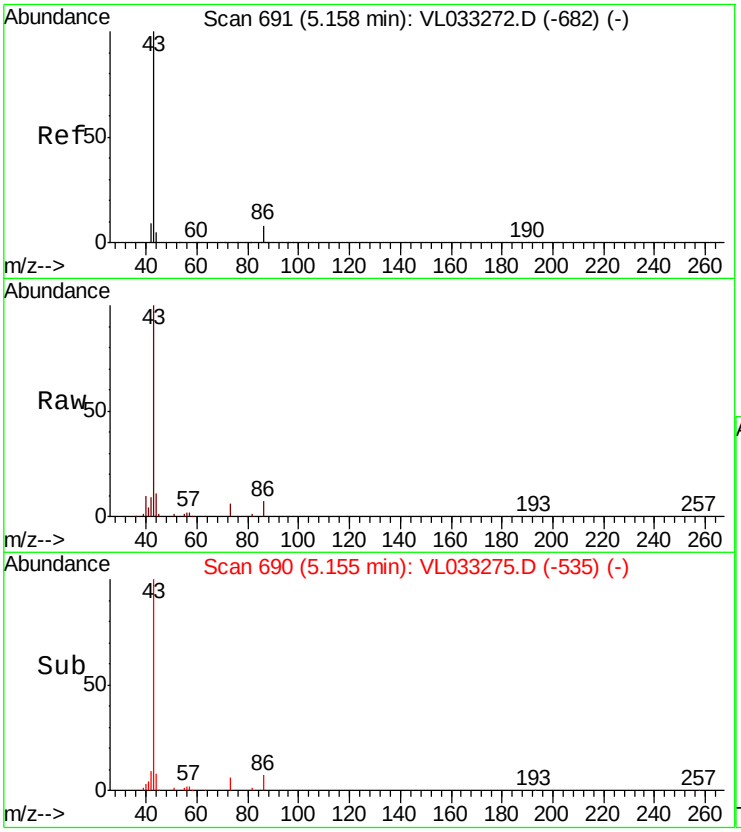


#22
trans-1,2-Dichloroethene
Concen: 0.497 ppbv
RT: 4.97 min Scan# 631
Delta R.T. 0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 96 Resp: 23475

Ion	Ratio	Lower	Upper
96	100		
61	163.4	131.6	197.4
98	58.9	54.1	81.1

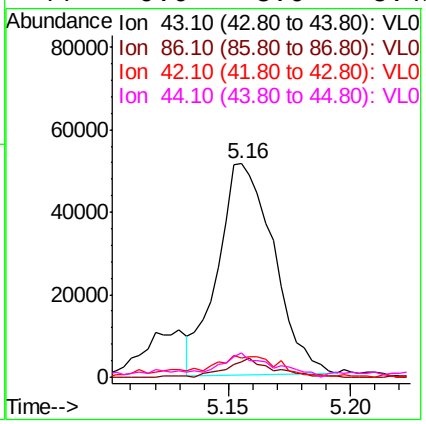




#23
Vinyl Acetate
Concen: 0.511 ppbv
RT: 5.16 min Scan# 690
Delta R.T. -0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 43 Resp: 81665

Ion	Ratio	Lower	Upper
43	100		
86	6.9	5.5	8.3
42	6.7	7.8	11.6#
44	9.6	3.6	5.4#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
MMDadoda
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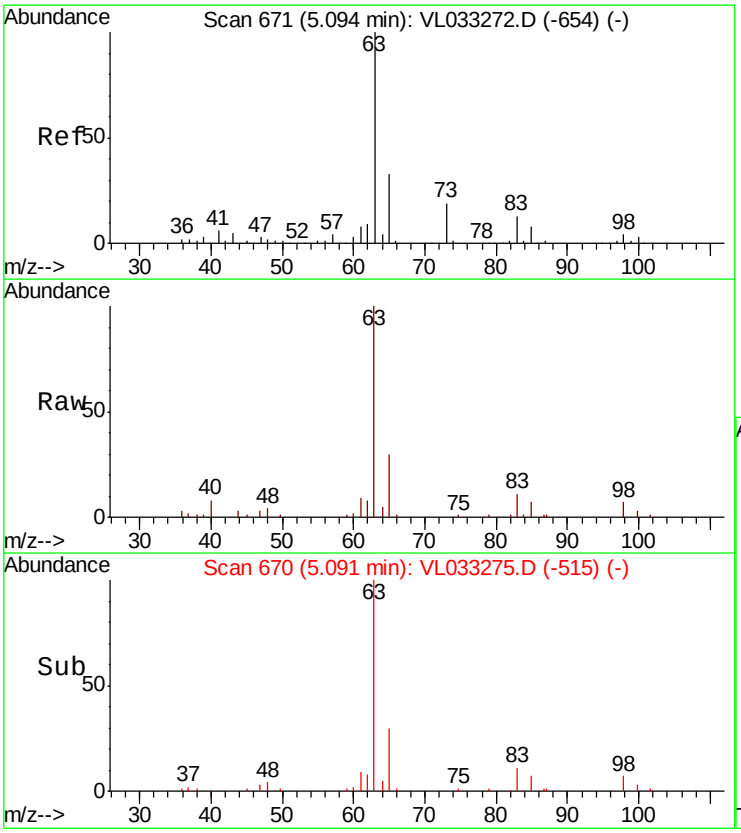
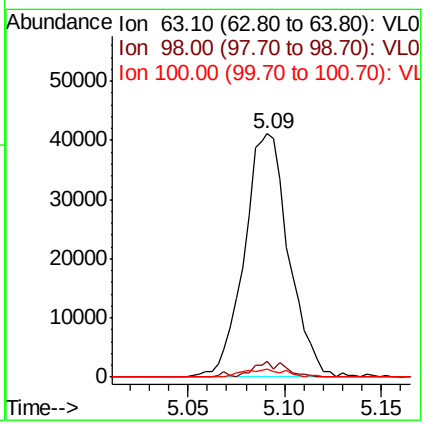
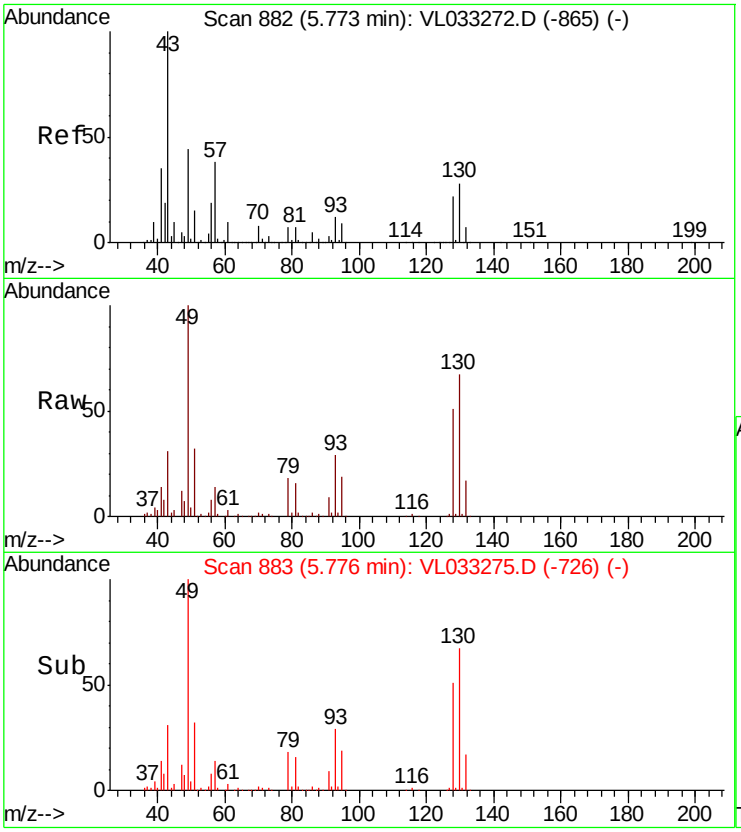


#24
1,1-Dichloroethane
Concen: 0.543 ppbv
RT: 5.09 min Scan# 670
Delta R.T. -0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 63 Resp: 65873

Ion	Ratio	Lower	Upper
63	100		
98	6.6	2.2	6.6
100	3.3	1.5	4.4

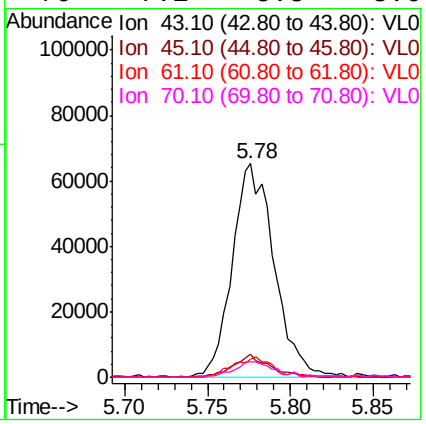




#25
Ethyl Acetate
Concen: 0.543 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 43 Resp: 114535

Ion	Ratio	Lower	Upper
43	100		
45	9.3	7.8	11.6
61	9.5	7.3	10.9
70	7.1	5.8	8.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
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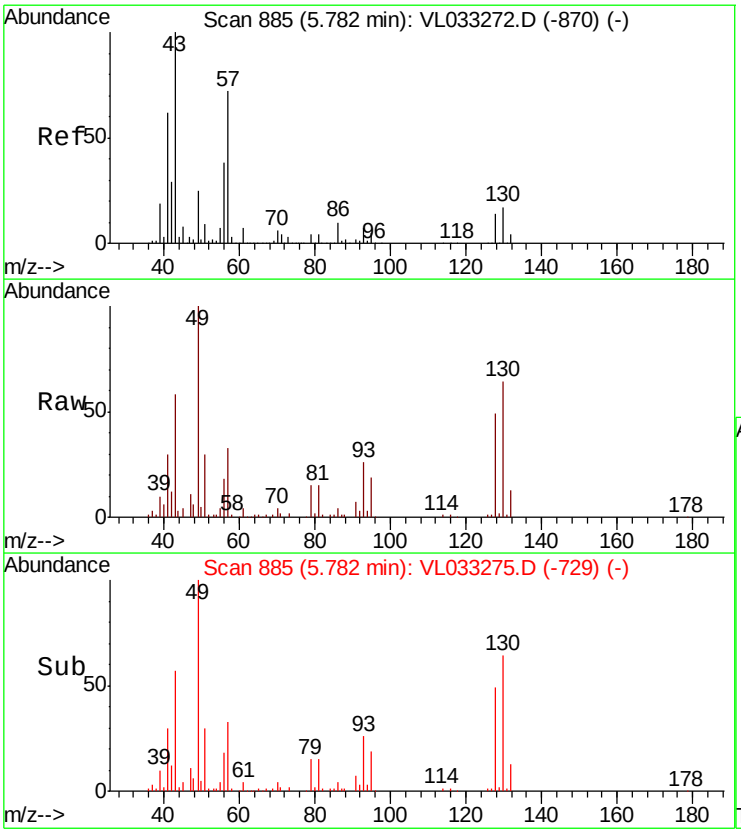
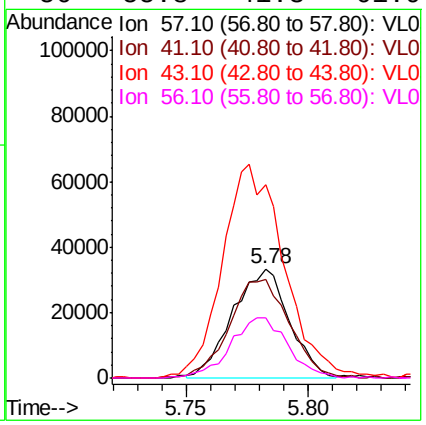
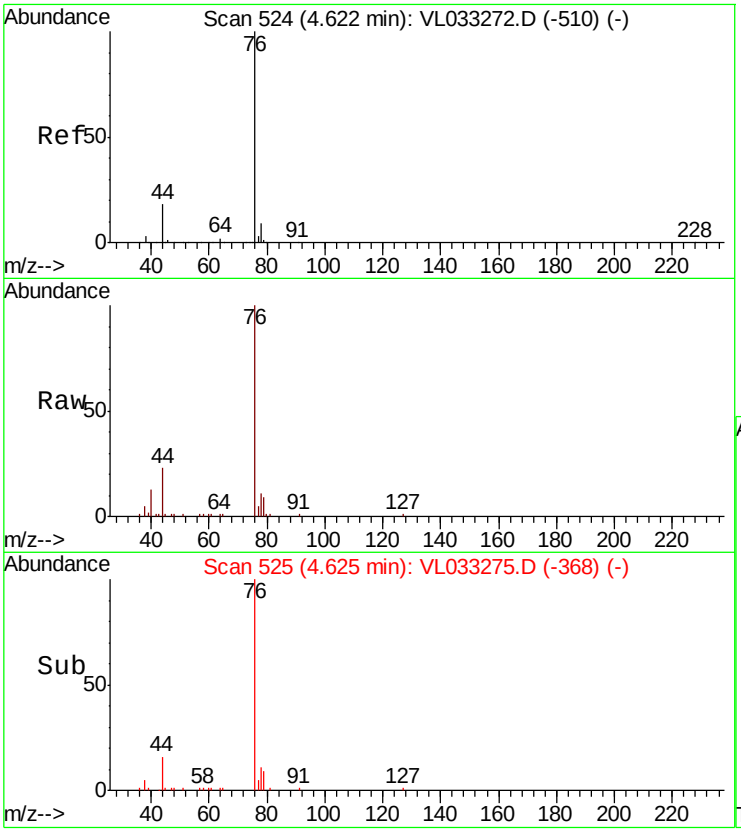


#26
Hexane
Concen: 0.539 ppbv
RT: 5.78 min Scan# 885
Delta R.T. 0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 57 Resp: 53650

Ion	Ratio	Lower	Upper
57	100		
41	96.0	70.7	106.1
43	215.5	178.6	267.8
56	55.8	41.3	61.9

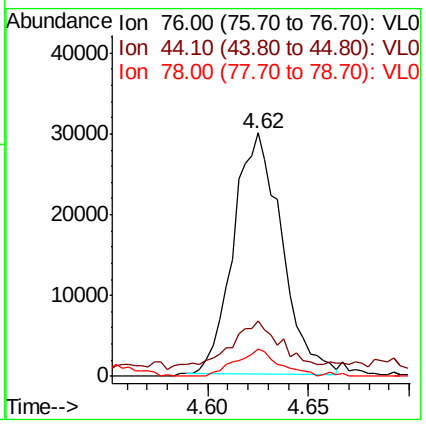




#27
Carbon Disulfide
Concen: 0.496 ppbv
RT: 4.62 min Scan# 525
Delta R.T. 0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 76 Resp: 49939

Ion	Ratio	Lower	Upper
76	100		
44	19.7	15.1	22.7
78	10.7	7.4	11.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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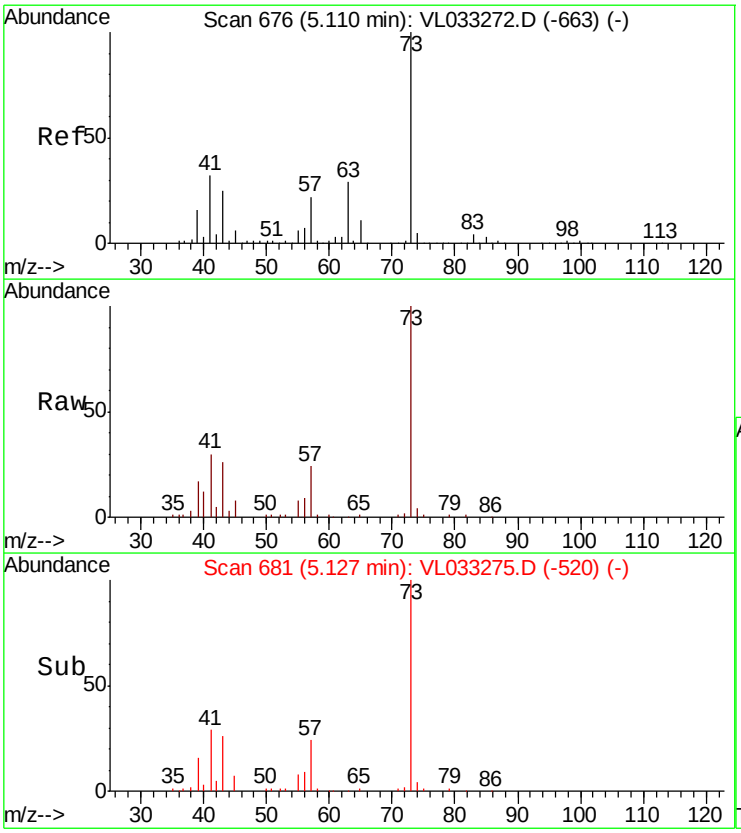
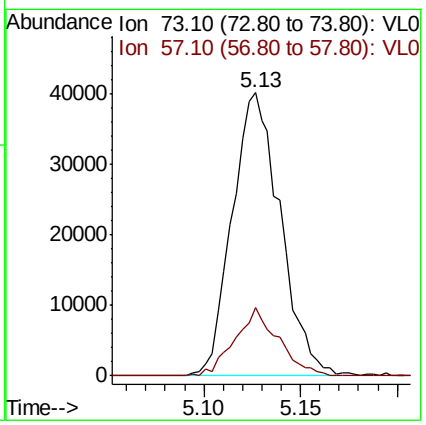
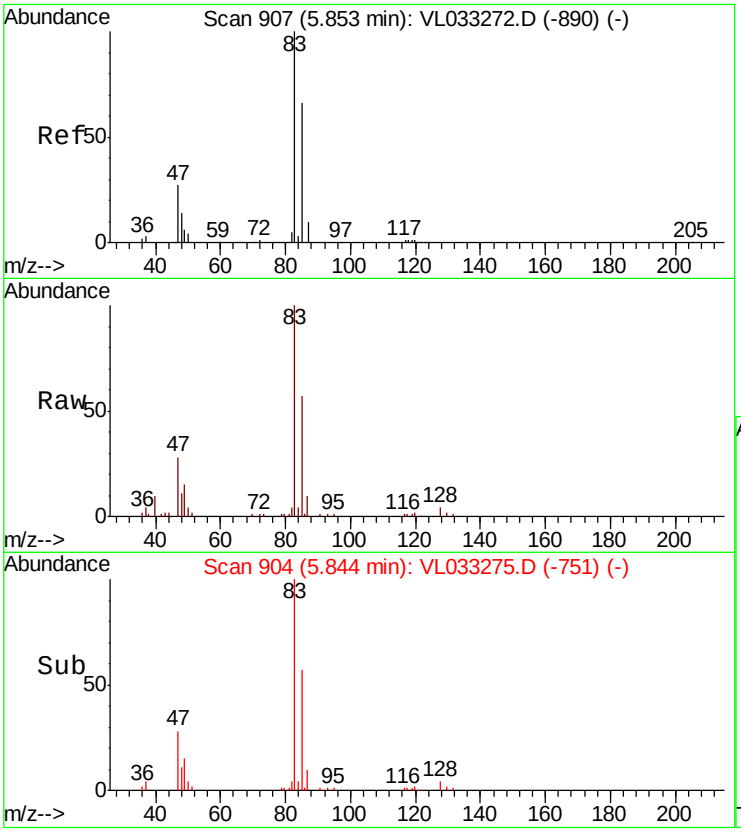


#28
Methyl tert-Butyl Ether
Concen: 0.529 ppbv
RT: 5.13 min Scan# 681
Delta R.T. 0.02 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 73 Resp: 69409

Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.9	26.9

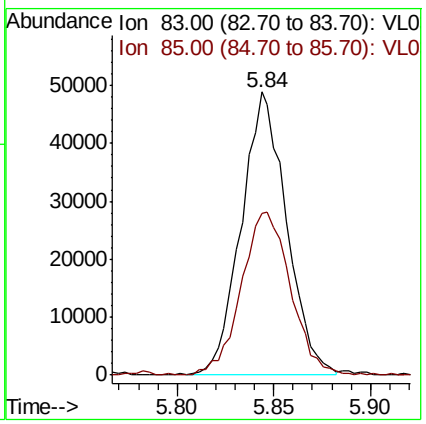




#29
Chloroform
Concen: 0.525 ppbv
RT: 5.84 min Scan# 904
Delta R.T. -0.01 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 83 Resp: 79481

Ion	Ratio	Lower	Upper
83	100		
85	57.2	52.5	78.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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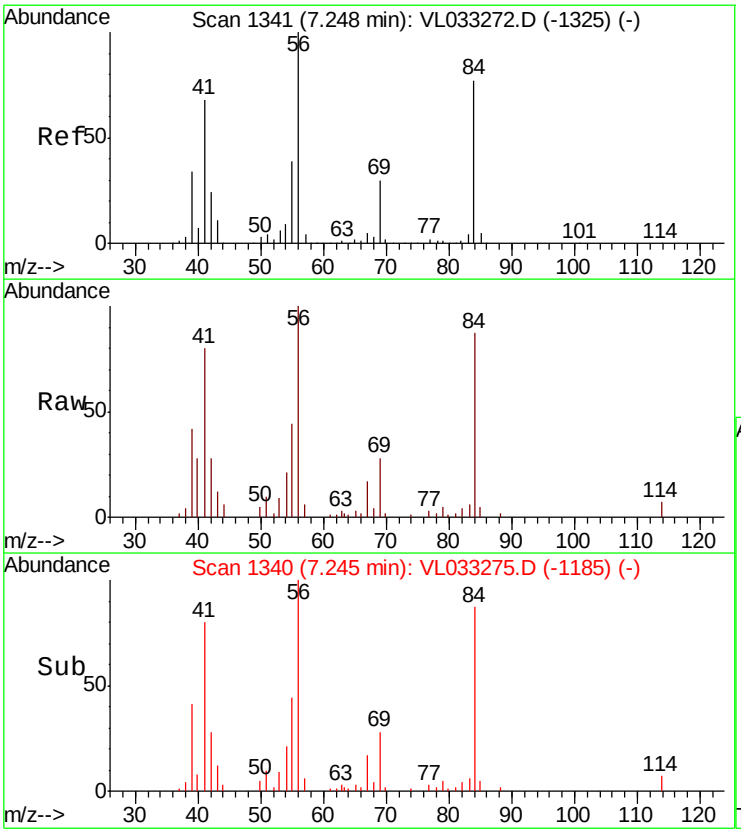
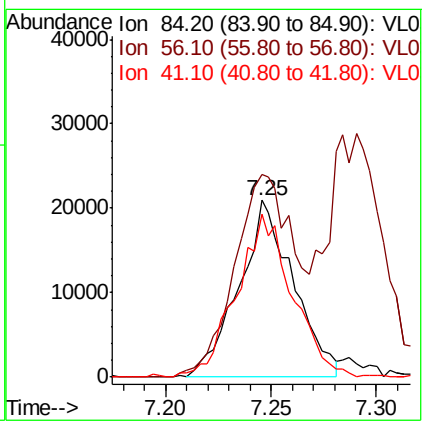
3/14/2019 5:05:42 AM

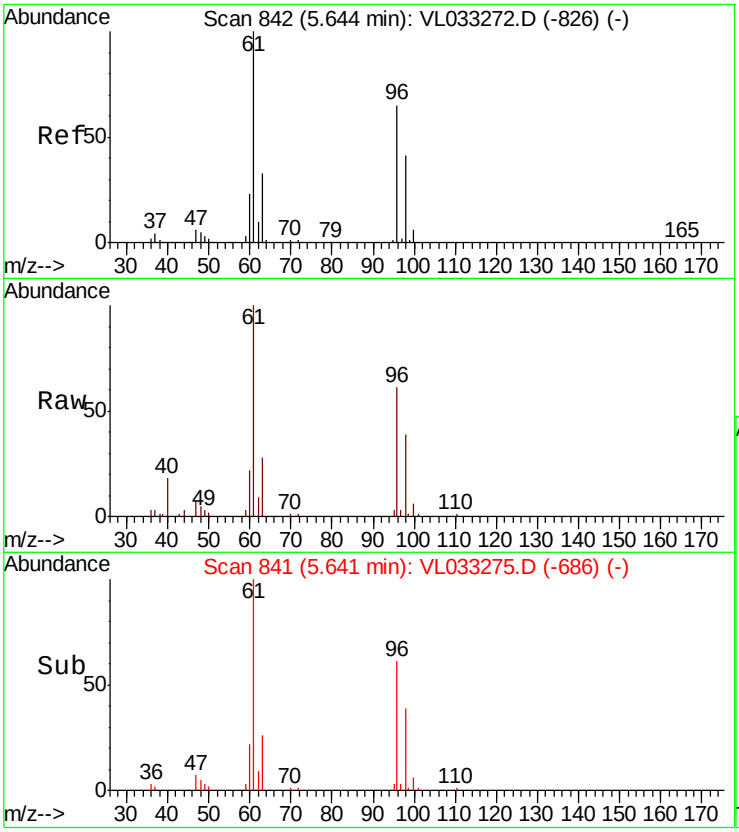


#30
Cyclohexane
Concen: 0.502 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 84 Resp: 37536

Ion	Ratio	Lower	Upper
84	100		
56	119.7	112.0	168.0
41	95.3	69.9	104.9

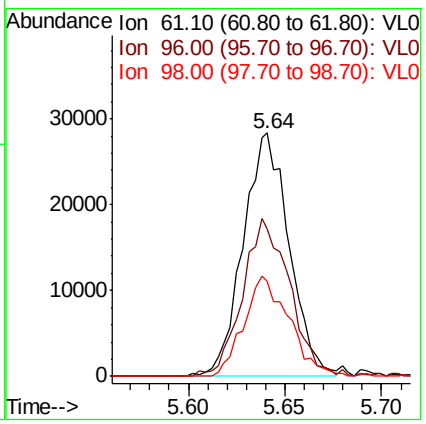




#31
cis-1,2-Dichloroethene
Concen: 0.499 ppbv
RT: 5.64 min Scan# 841
Delta R.T. -0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 61 Resp: 46935

Ion	Ratio	Lower	Upper
61	100		
96	60.6	51.8	77.8
98	40.3	32.9	49.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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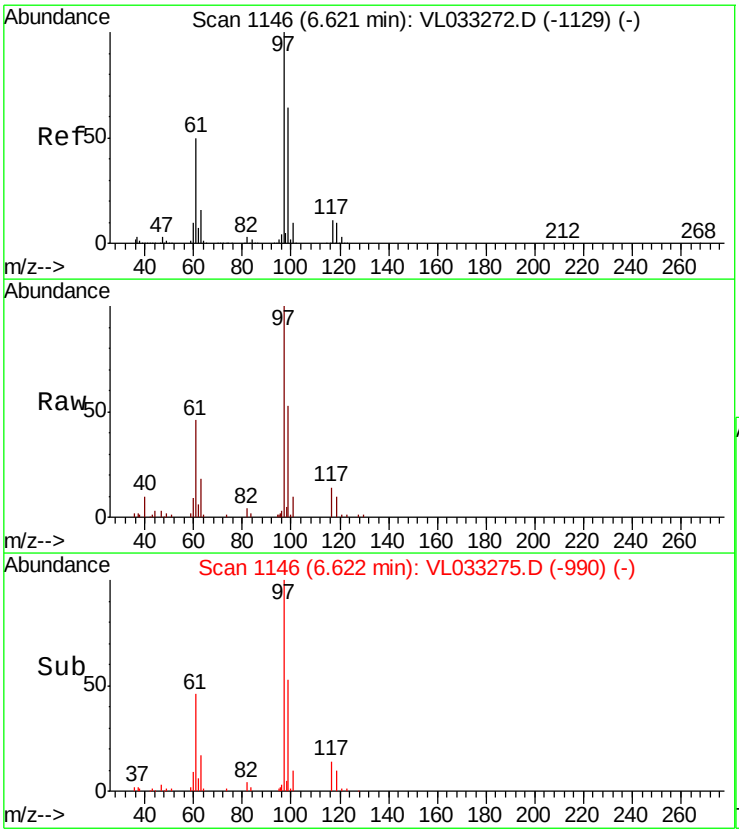
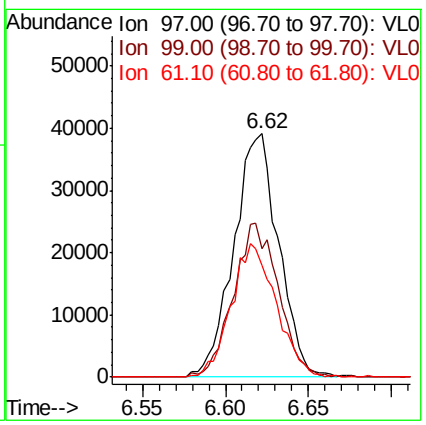
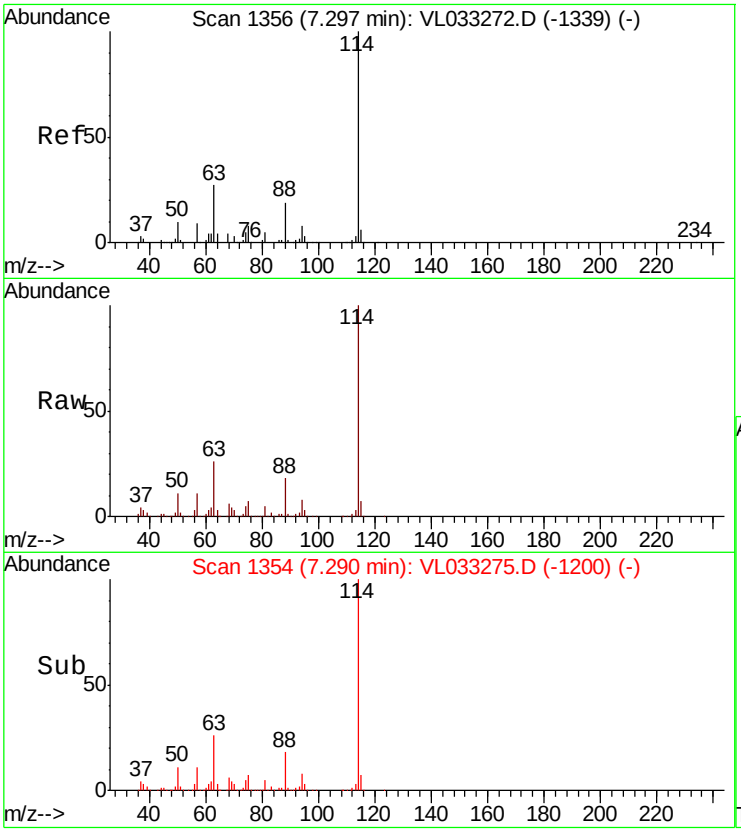


#32
1,1,1-Trichloroethane
Concen: 0.515 ppbv
RT: 6.62 min Scan# 1146
Delta R.T. 0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 97 Resp: 73443

Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.7	77.5
61	54.9	39.7	59.5

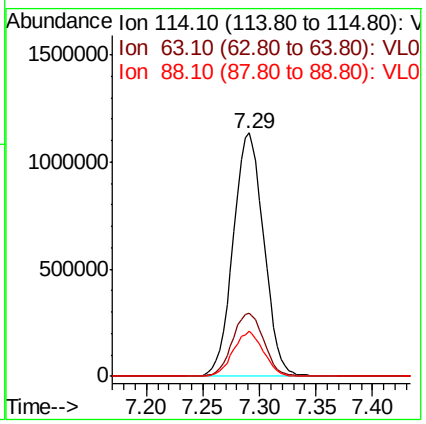




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1354
Delta R.T. -0.01 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion:114 Resp: 2145350

Ion	Ratio	Lower	Upper
114	100		
63	26.6	21.5	32.3
88	18.2	14.6	22.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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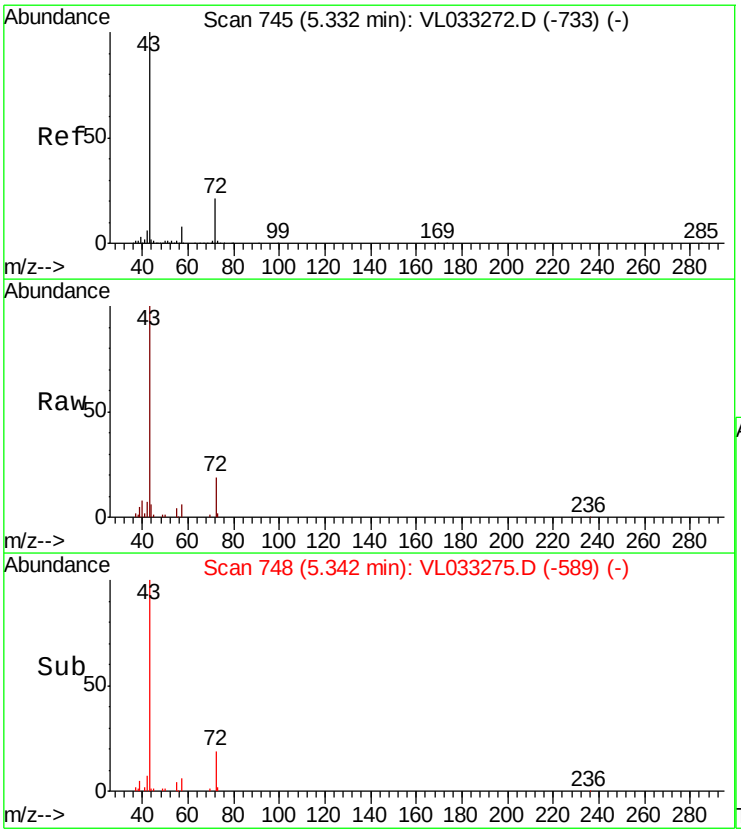
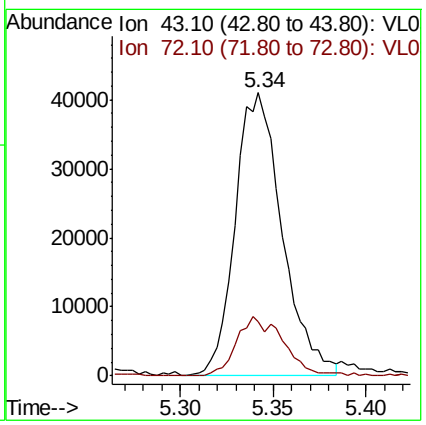
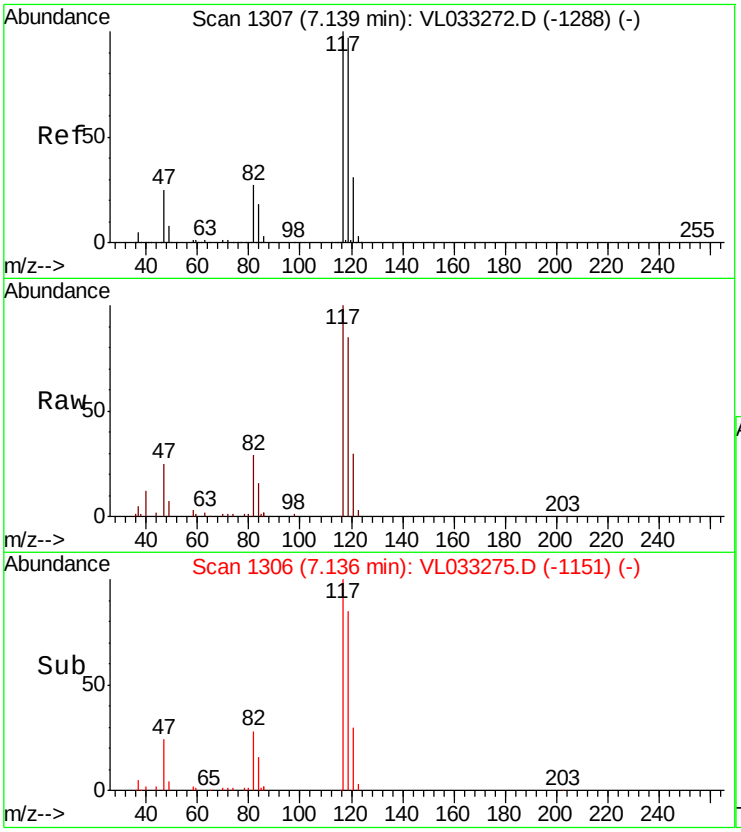


#34
2-Butanone
Concen: 0.544 ppbv
RT: 5.34 min Scan# 748
Delta R.T. 0.01 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 43 Resp: 72362

Ion	Ratio	Lower	Upper
43	100		
72	21.0	17.0	25.6

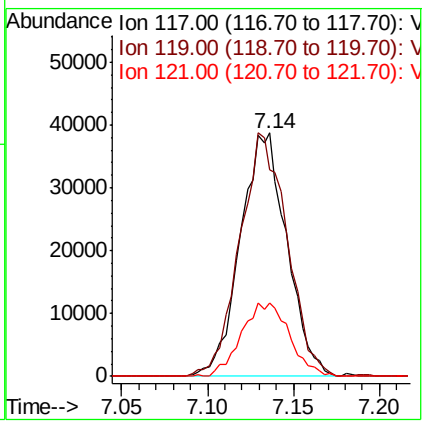




#35
Carbon Tetrachloride
Concen: 0.494 ppbv
RT: 7.14 min Scan# 1306
Delta R.T. -0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion:117 Resp: 72638

Ion	Ratio	Lower	Upper
117	100		
119	85.0	77.4	116.0
121	30.2	24.9	37.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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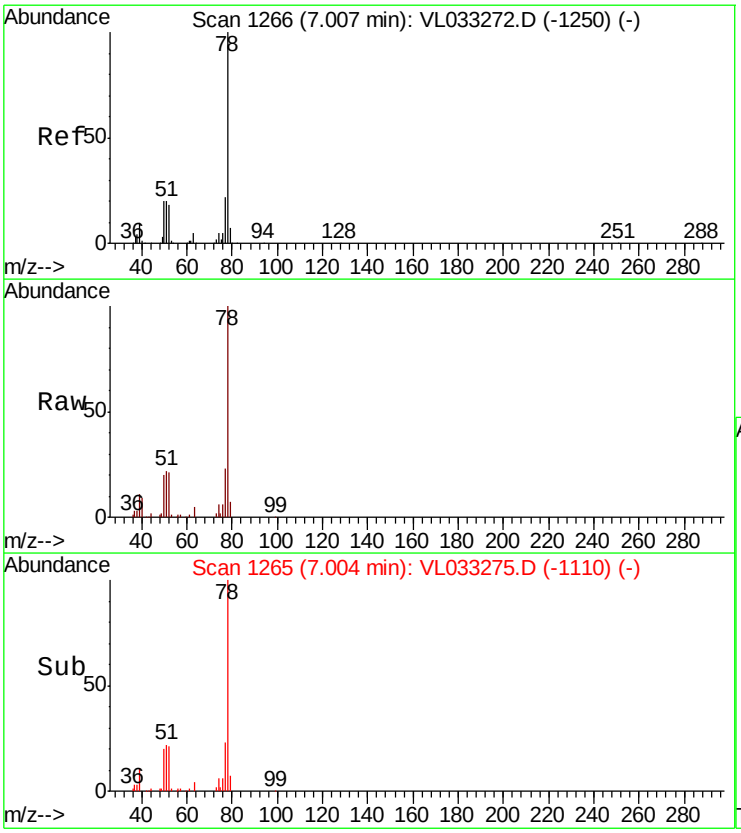
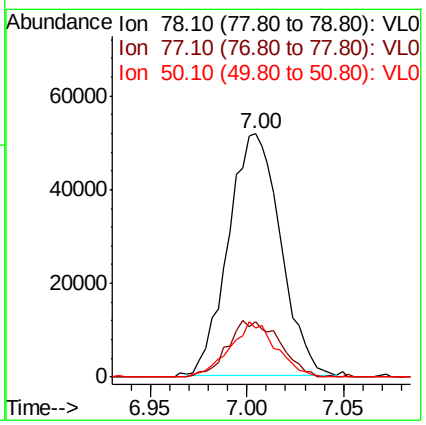
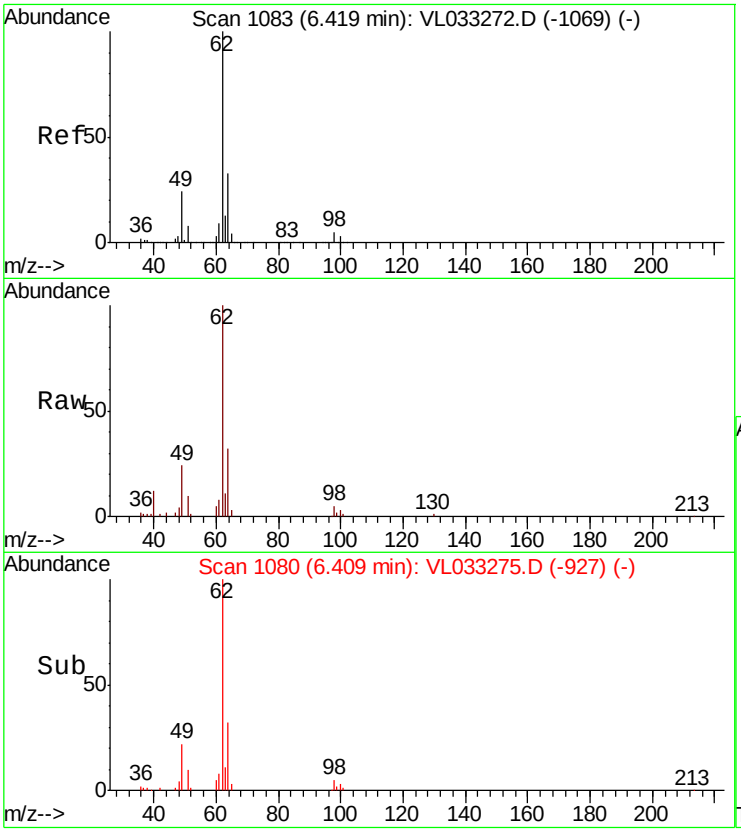


#36
Benzene
Concen: 0.511 ppbv
RT: 7.00 min Scan# 1265
Delta R.T. -0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 78 Resp: 96822

Ion	Ratio	Lower	Upper
78	100		
77	22.7	17.7	26.5
50	20.5	15.7	23.5

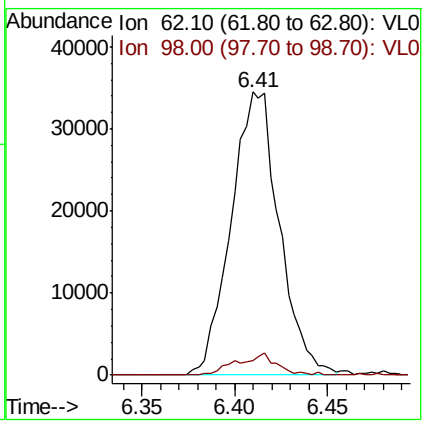




#37
1,2-Dichloroethane
Concen: 0.514 ppbv
RT: 6.41 min Scan# 1080
Delta R.T. -0.01 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 62 Resp: 62278

Ion	Ratio	Lower	Upper
62	100		
98	6.4	4.5	6.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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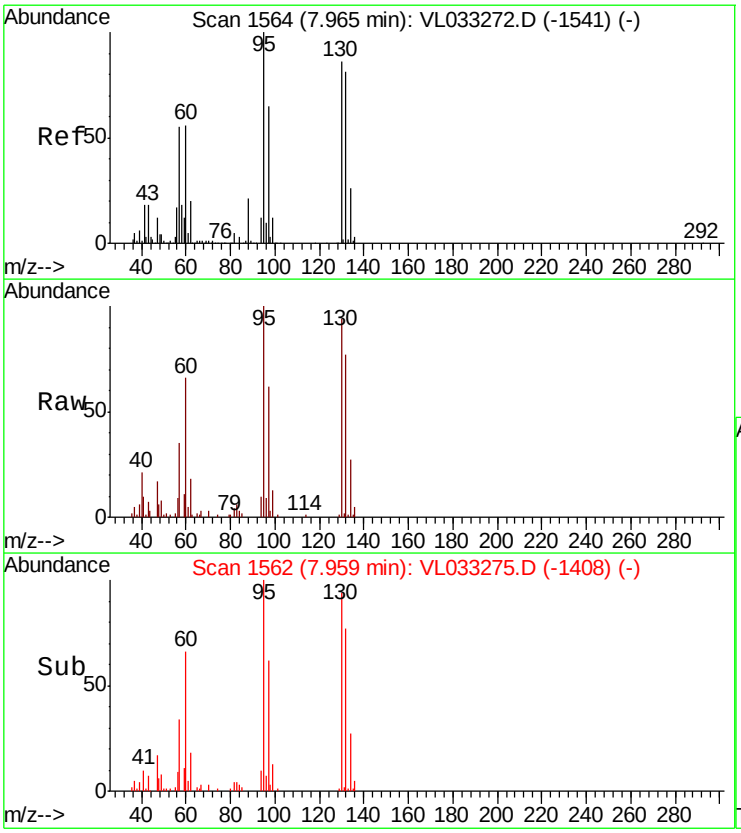
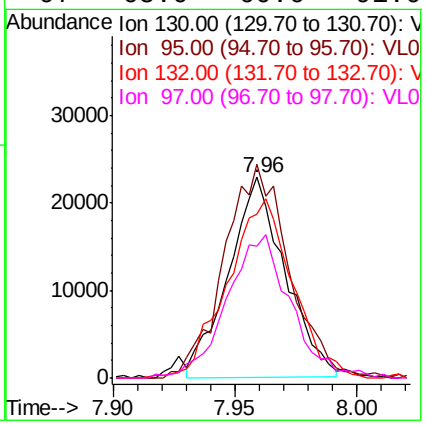
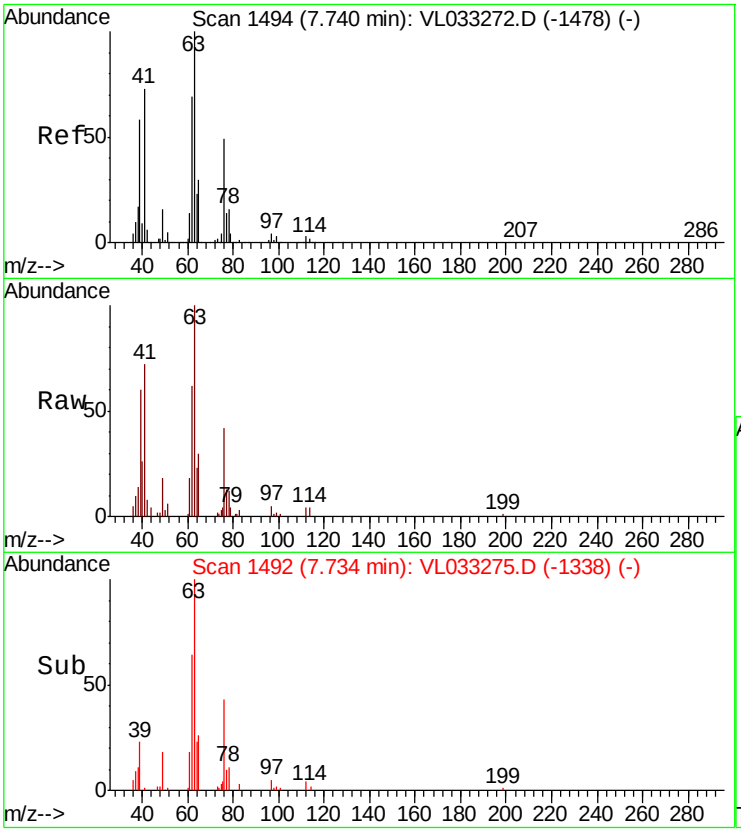


#38
Trichloroethene
Concen: 0.511 ppbv
RT: 7.96 min Scan# 1562
Delta R.T. -0.01 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion:130 Resp: 36632

Ion	Ratio	Lower	Upper
130	100		
95	105.5	93.3	139.9
132	81.9	75.4	113.2
97	65.0	60.6	91.0

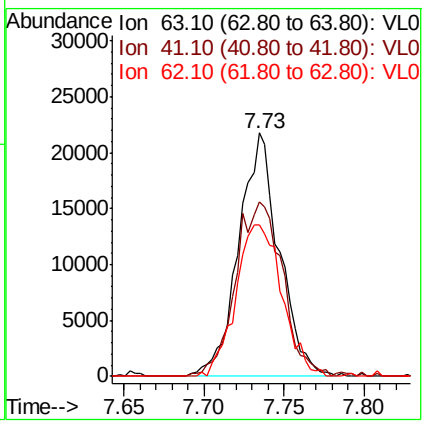




#39
1,2-Dichloropropane
Concen: 0.518 ppbv
RT: 7.73 min Scan# 1492
Delta R.T. -0.01 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 63 Resp: 37599

Ion	Ratio	Lower	Upper
63	100		
41	71.6	58.3	87.5
62	62.3	55.3	82.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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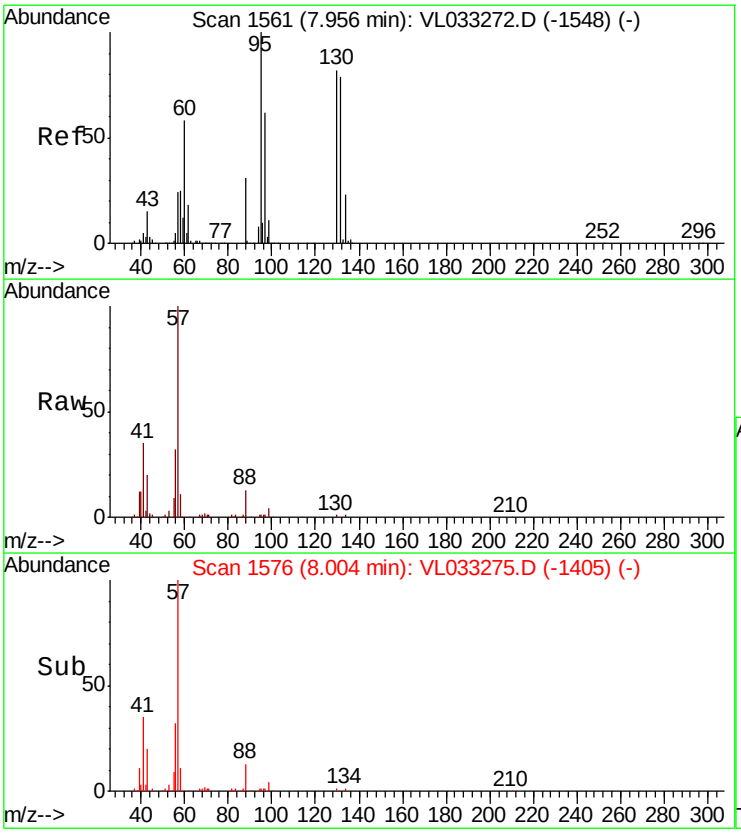
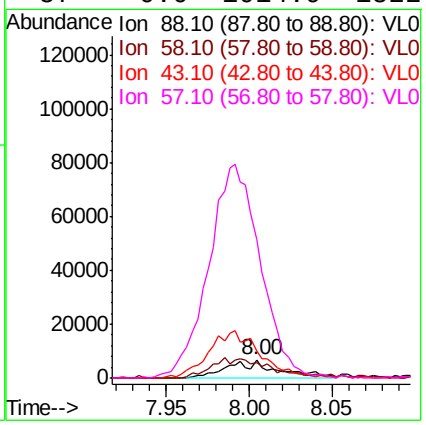
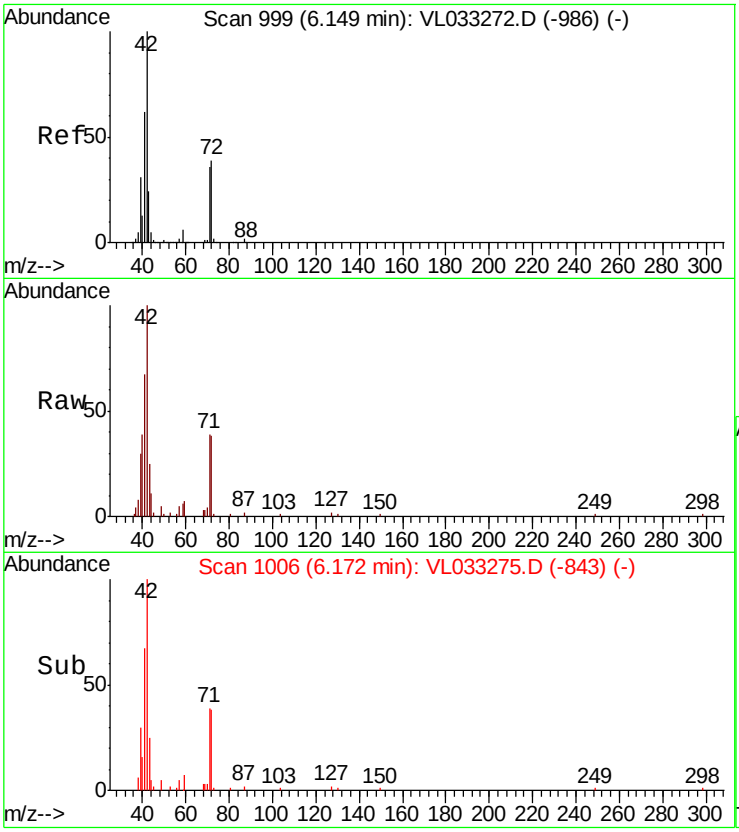


#40
1,4-Dioxane
Concen: 0.532 ppbv m
RT: 8.00 min Scan# 1576
Delta R.T. 0.05 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 88 Resp: 14142

Ion	Ratio	Lower	Upper
88	100		
58	0.0	107.0	160.6#
43	0.0	230.2	345.4#
57	0.0	1014.9	1522.3#

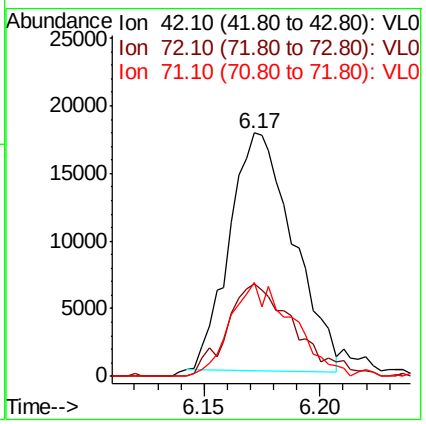




#41
Tetrahydrofuran
Concen: 0.449 ppbv
RT: 6.17 min Scan# 1006
Delta R.T. 0.02 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 42 Resp: 33770

Ion	Ratio	Lower	Upper
42	100		
72	41.4	30.6	46.0
71	39.2	29.7	44.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
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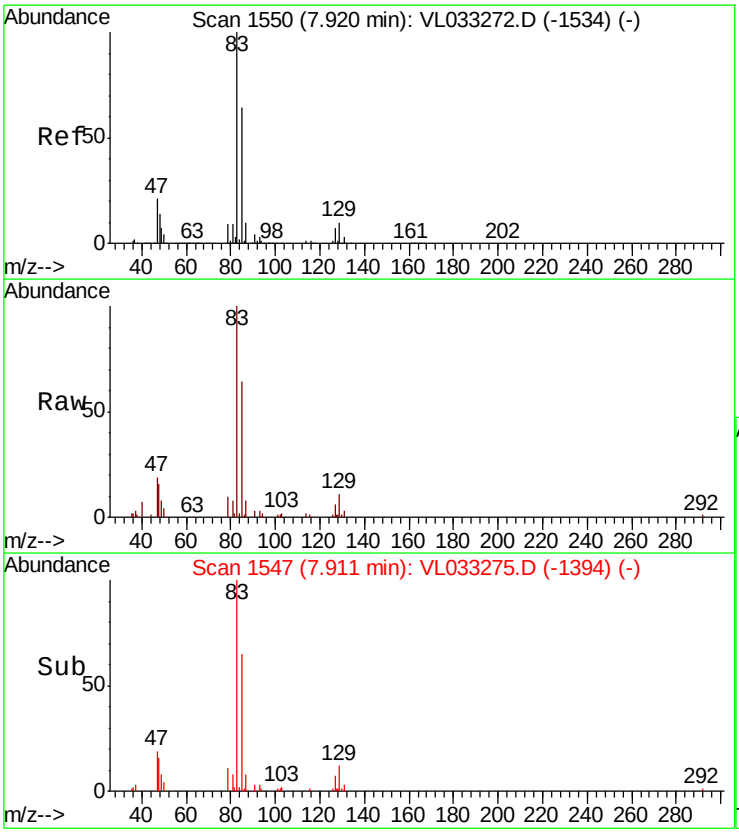
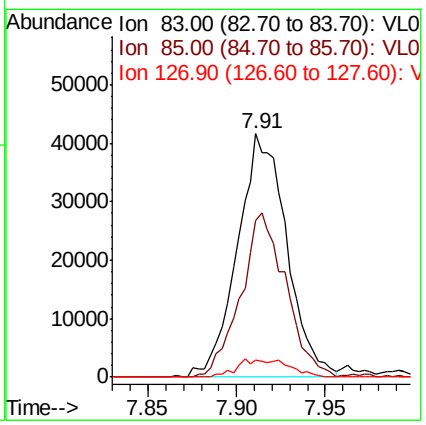
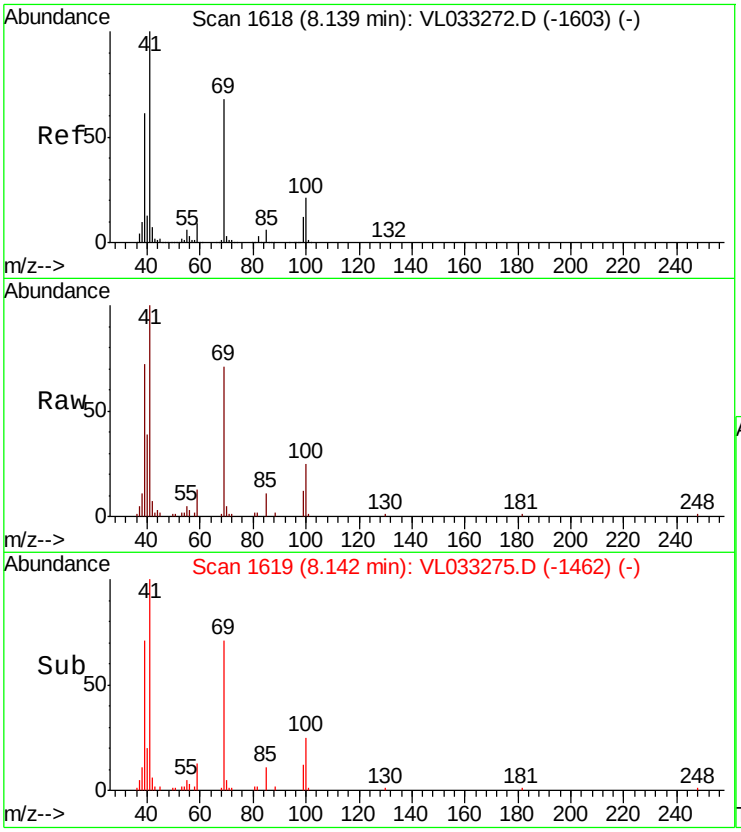


#42
Bromodichloromethane
Concen: 0.496 ppbv m
RT: 7.91 min Scan# 1547
Delta R.T. -0.01 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 83 Resp: 80122

Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.0	76.4
127	6.5	6.0	9.0

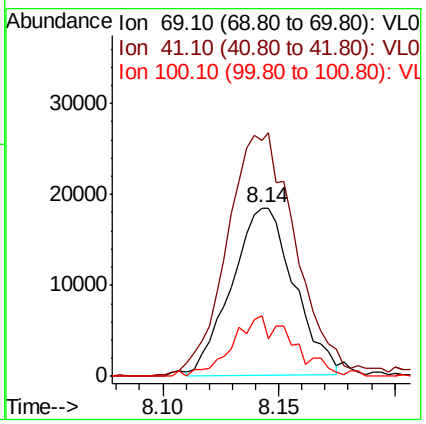




#43
Methyl Methacrylate
Concen: 0.468 ppbv
RT: 8.14 min Scan# 1619
Delta R.T. 0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 69 Resp: 34690

Ion	Ratio	Lower	Upper
69	100		
41	159.6	121.0	181.4
100	35.3	24.4	36.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
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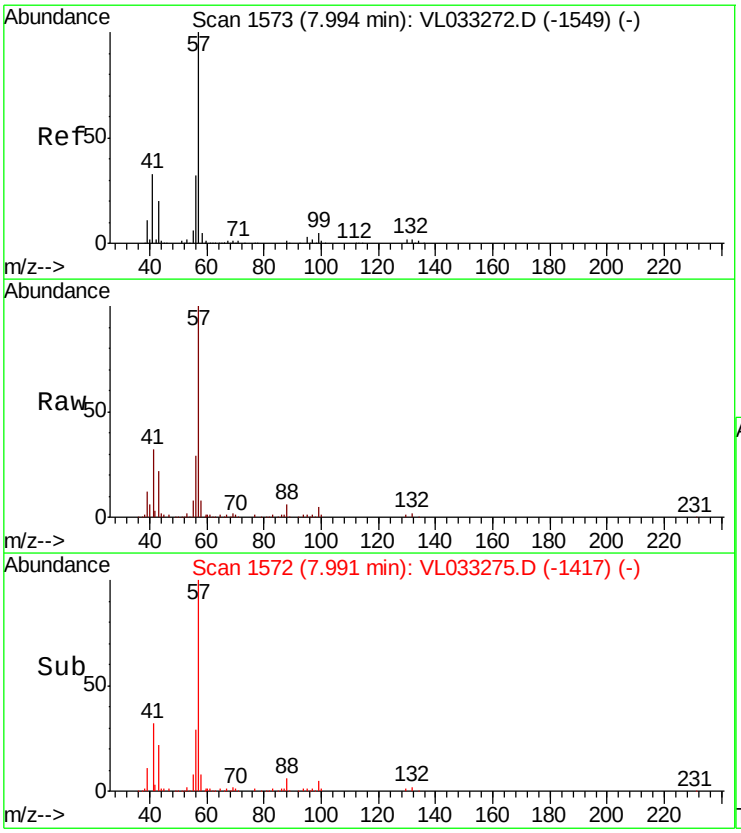
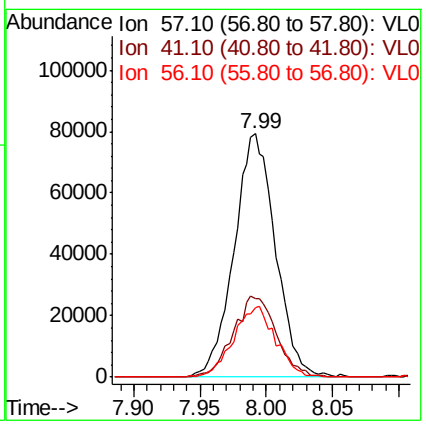
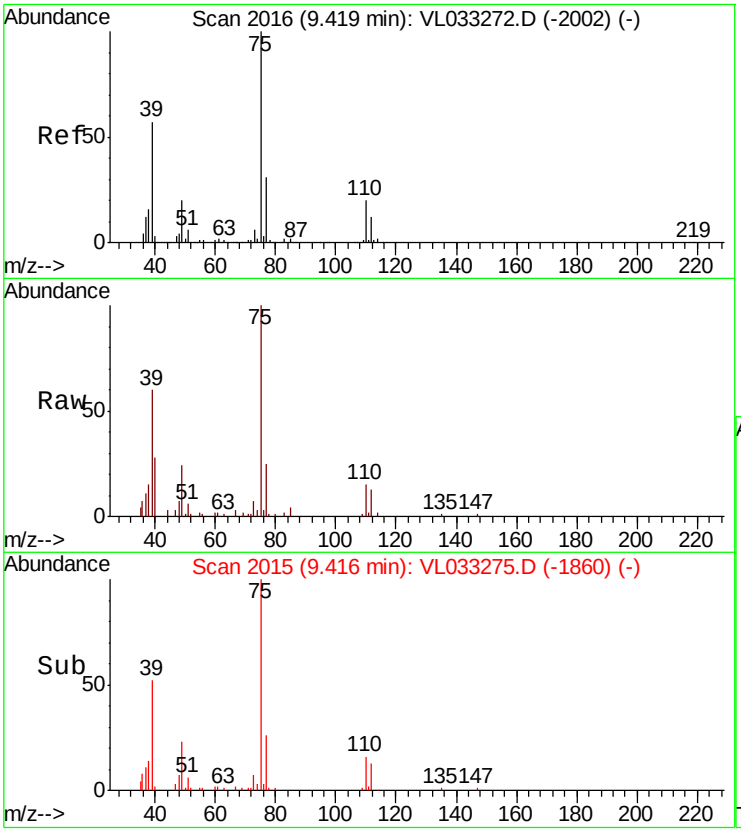


#44
2,2,4-Trimethylpentane
Concen: 0.525 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. -0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 57 Resp: 171618

Ion	Ratio	Lower	Upper
57	100		
41	34.8	26.2	39.2
56	29.8	24.8	37.2

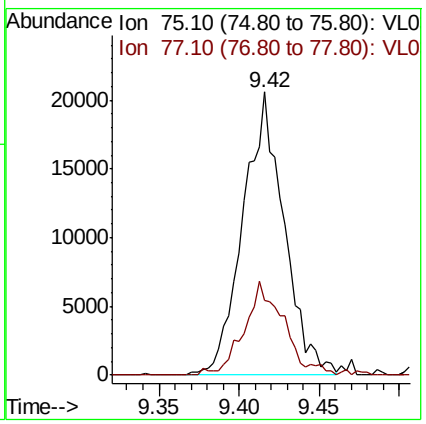




#45
t-1,3-Dichloropropene
Concen: 0.410 ppbv m
RT: 9.42 min Scan# 2015
Delta R.T. -0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 75 Resp: 36834

Ion	Ratio	Lower	Upper
75	100		
77	25.3	24.4	36.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
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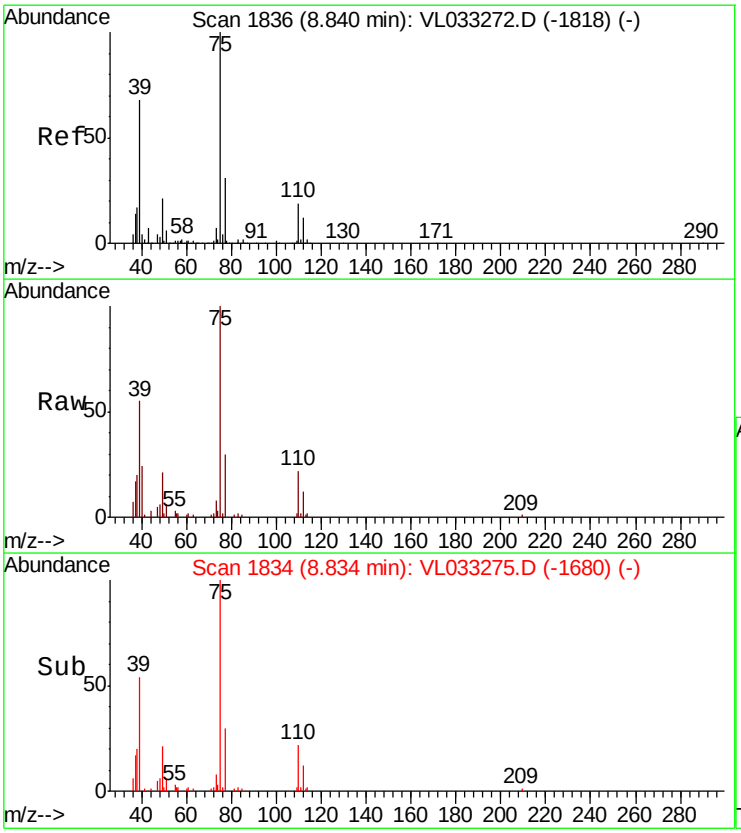
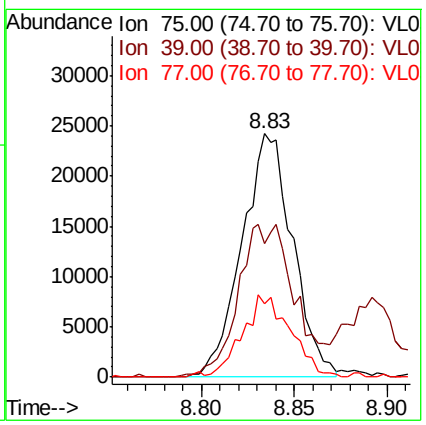
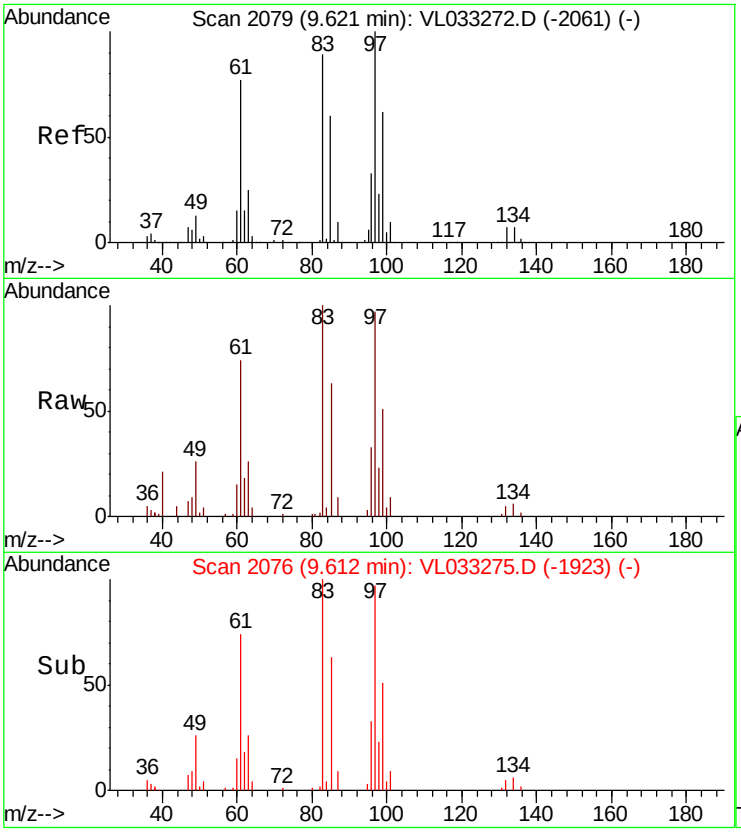


#46
cis-1,3-Dichloropropene
Concen: 0.436 ppbv
RT: 8.83 min Scan# 1834
Delta R.T. -0.01 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 75 Resp: 46127

Ion	Ratio	Lower	Upper
75	100		
39	53.8	54.2	81.2#
77	30.1	24.5	36.7

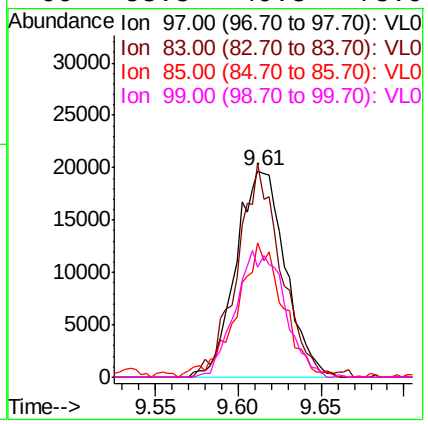




#47
1,1,2-Trichloroethane
Concen: 0.525 ppbv
RT: 9.61 min Scan# 2076
Delta R.T. -0.01 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 97 Resp: 40899

Ion	Ratio	Lower	Upper
97	100		
83	103.6	71.0	106.4
85	65.0	48.2	72.4
99	53.3	49.3	73.9



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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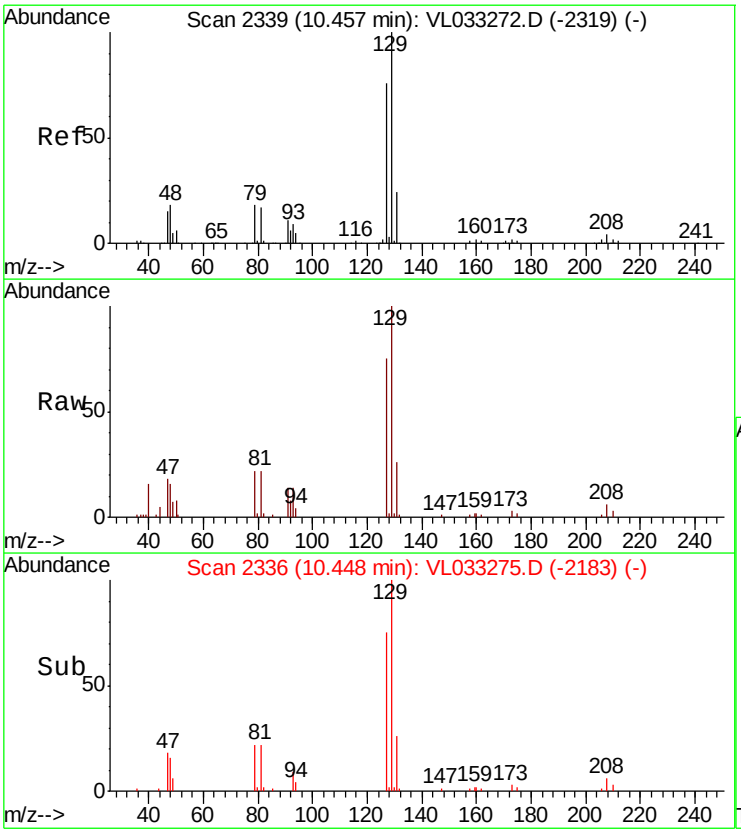
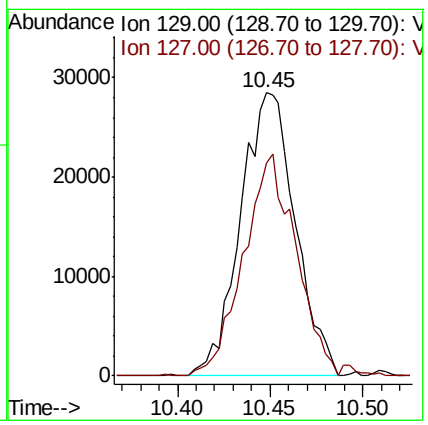
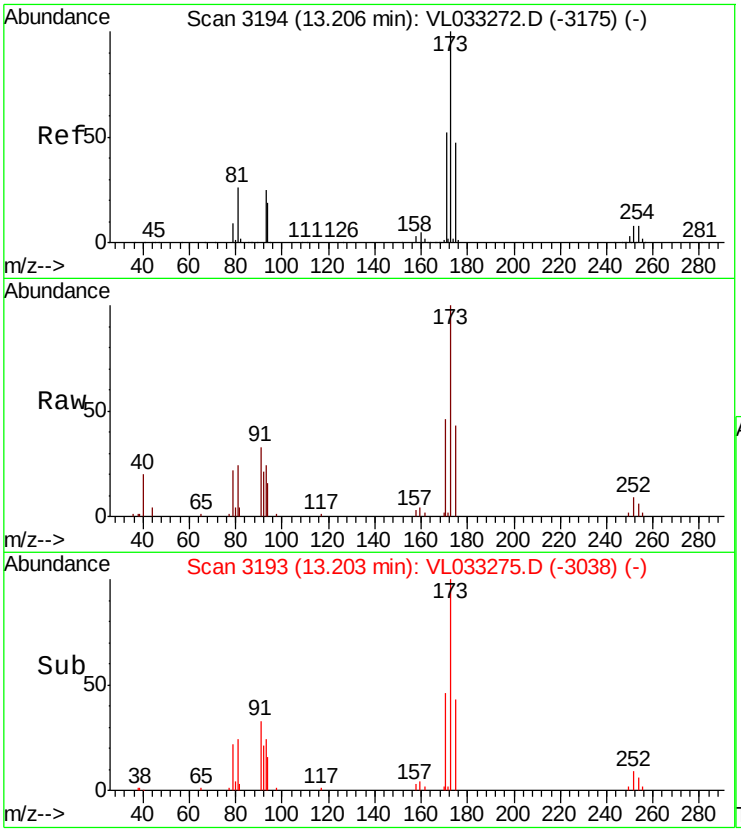


#48
Dibromochloromethane
Concen: 0.460 ppbv
RT: 10.45 min Scan# 2336
Delta R.T. -0.01 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion:129 Resp: 58695

Ion	Ratio	Lower	Upper
129	100		
127	76.1	38.9	116.6





#49
Bromoform
Concen: 0.378 ppbv m
RT: 13.20 min Scan# 3193
Delta R.T. -0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion:173 Resp: 43309

Ion	Ratio	Lower	Upper
173	100		
175	0.0	39.0	58.6#
171	0.0	41.2	61.8#

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
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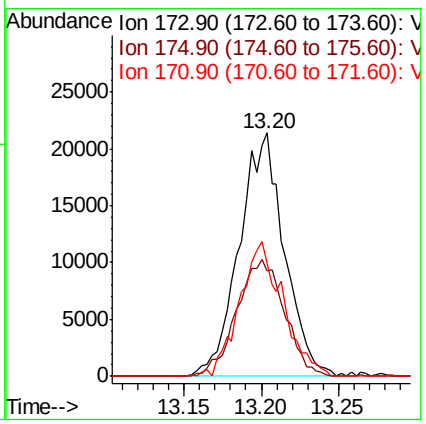
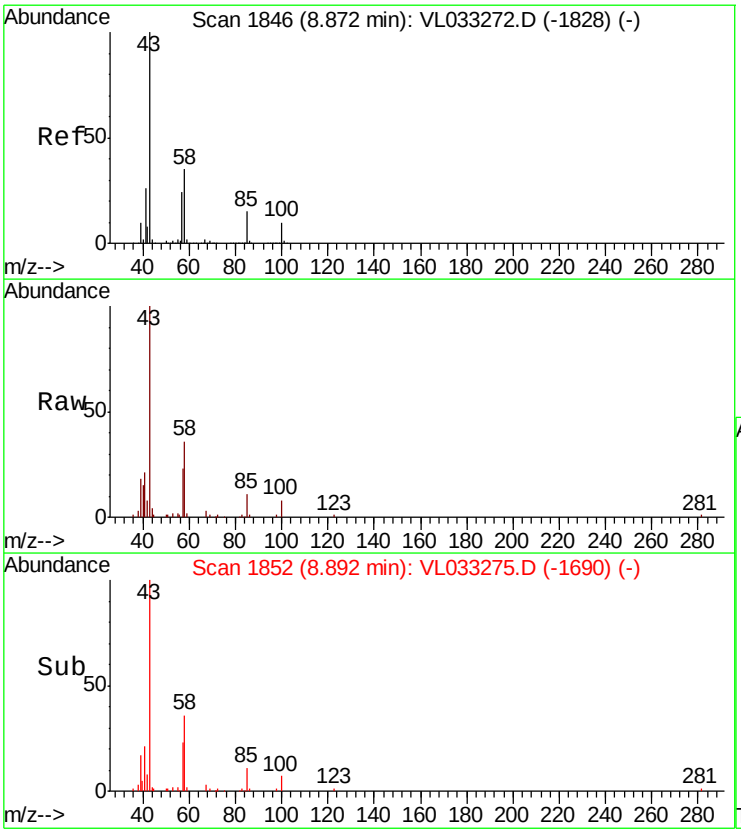
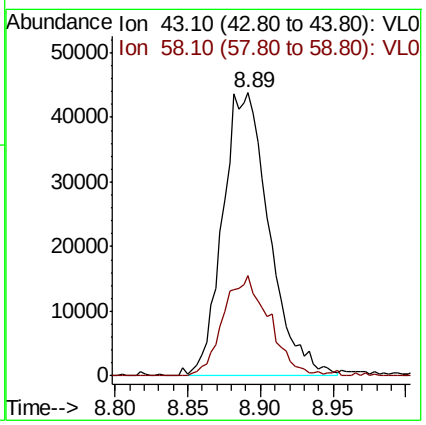


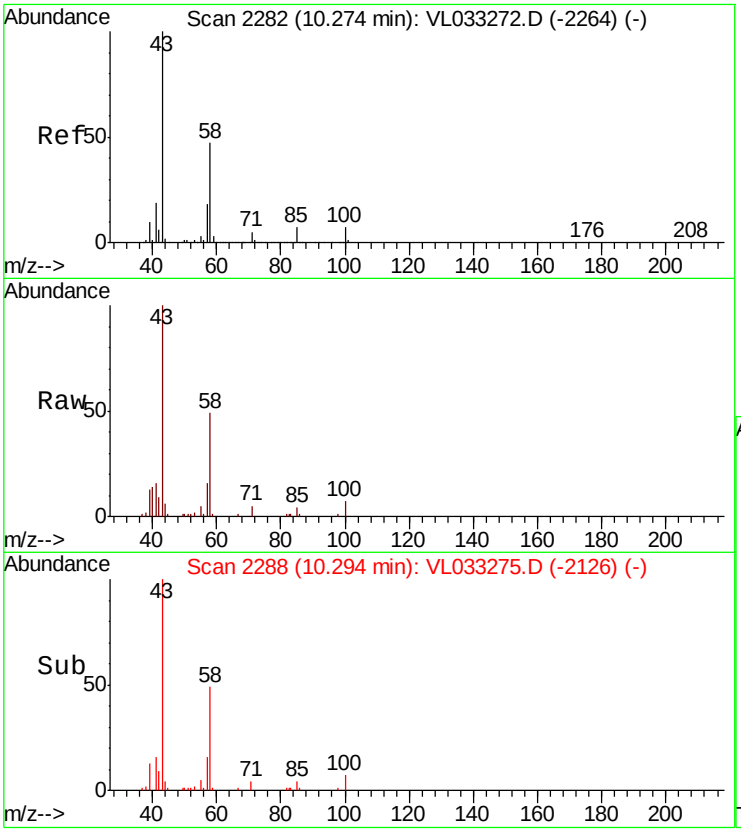


#50
4-Methyl-2-Pentanone
Concen: 0.498 ppbv m
RT: 8.89 min Scan# 1852
Delta R.T. 0.02 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 43 Resp: 97563

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.0	42.0#





#51
2-Hexanone
Concen: 0.459 ppbv
RT: 10.29 min Scan# 2288
Delta R.T. 0.02 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 43 Resp: 67064

Ion	Ratio	Lower	Upper
43	100		
58	46.5	38.1	57.1
98	0.1	0.1	0.1#

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
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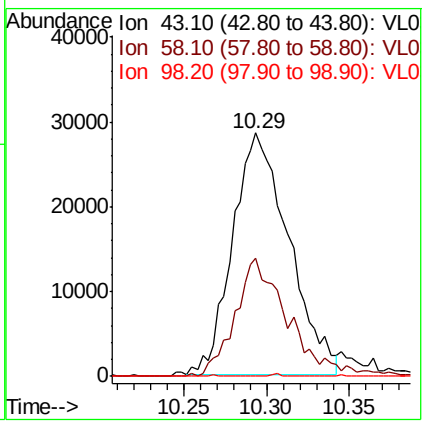
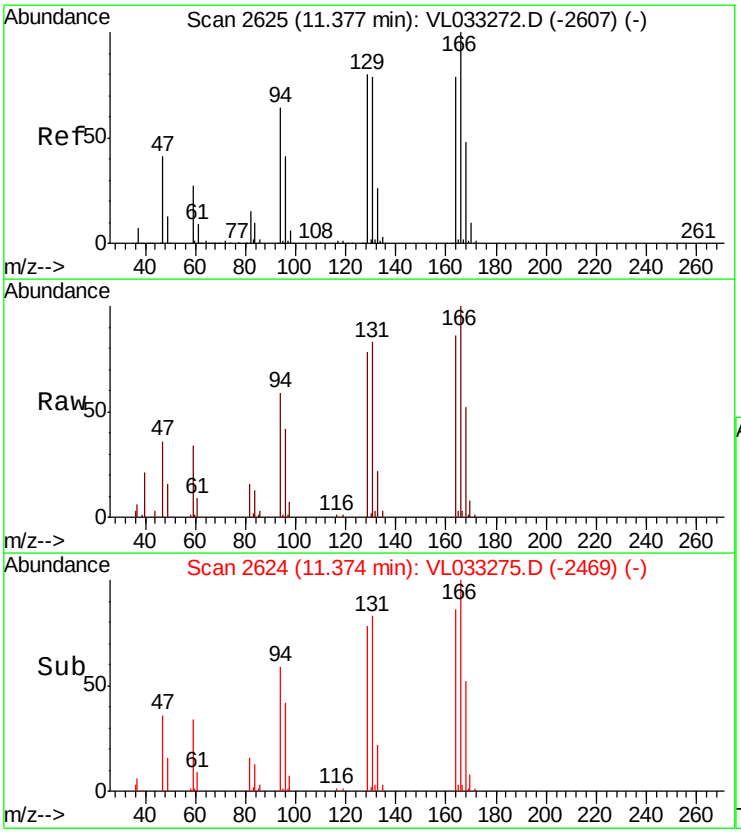
3/14/2019 5:05:42 AM

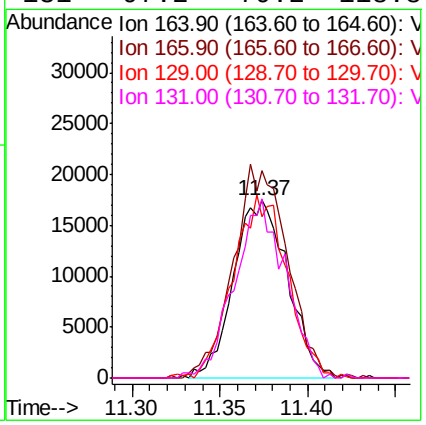


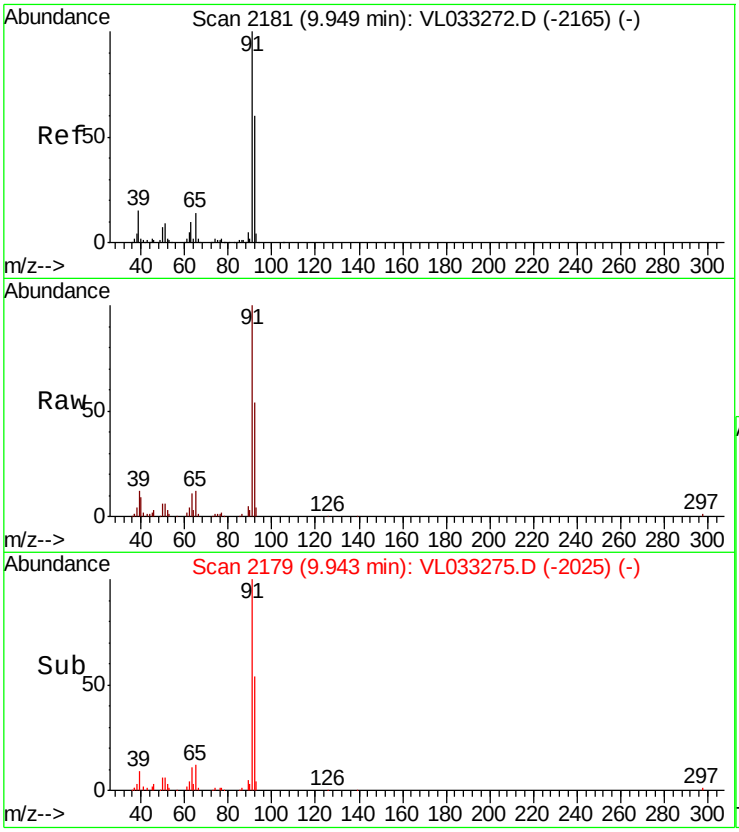


#52
Tetrachloroethene
Concen: 0.539 ppbv m
RT: 11.37 min Scan# 2624
Delta R.T. -0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion:164 Resp: 37332

Ion	Ratio	Lower	Upper
164	100		
166	117.0	100.8	151.2
129	90.7	80.6	121.0
131	97.2	79.2	118.8





#53
Toluene
Concen: 0.470 ppbv
RT: 9.94 min Scan# 2179
Delta R.T. -0.01 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 91 Resp: 99674

Ion	Ratio	Lower	Upper
91	100		
92	60.1	47.8	71.8

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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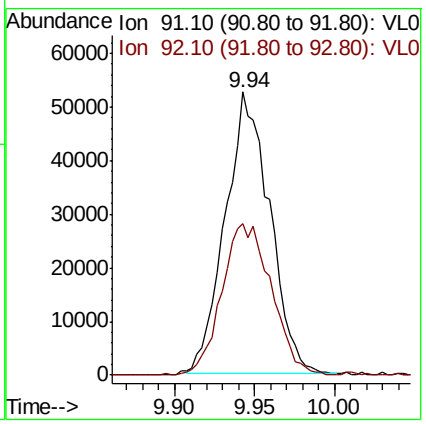
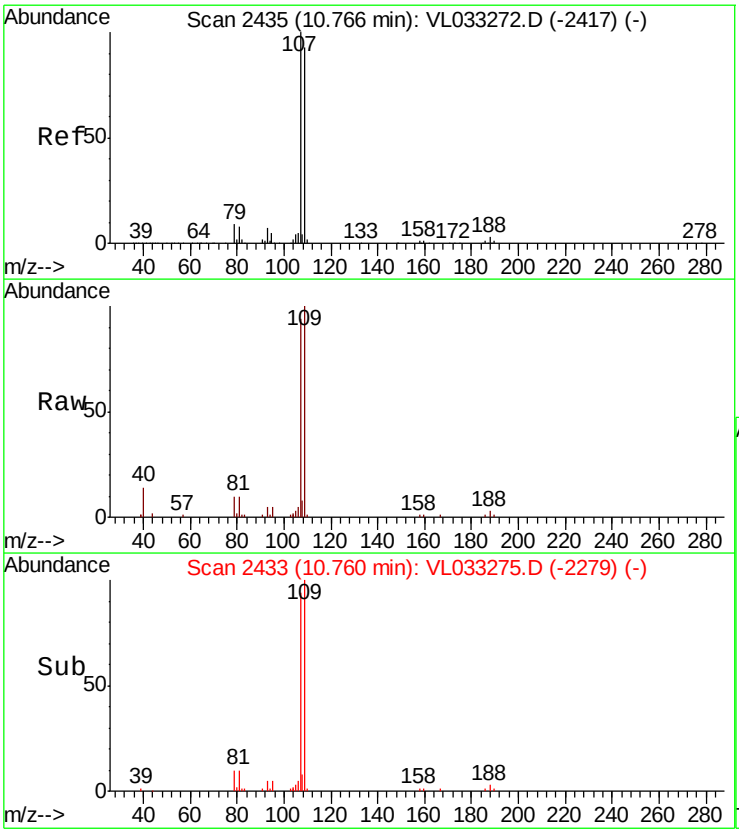
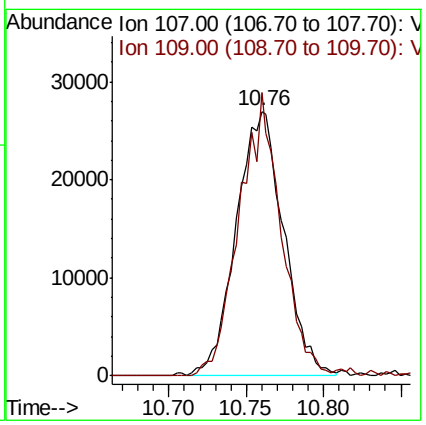


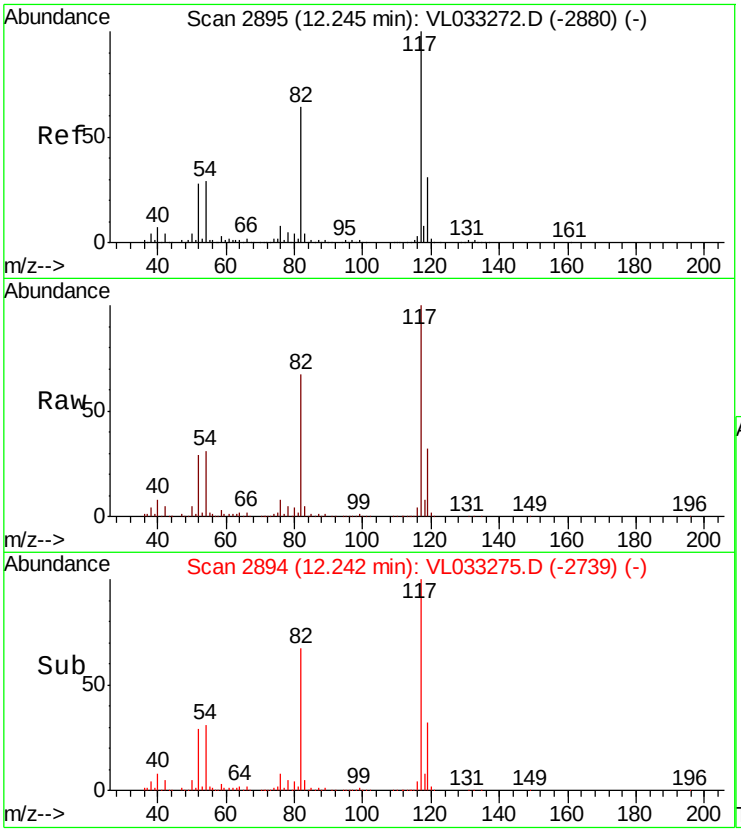


#54
1,2-Dibromoethane
Concen: 0.472 ppbv
RT: 10.76 min Scan# 2433
Delta R.T. -0.01 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion:107 Resp: 57625

Ion	Ratio	Lower	Upper
107	100		
109	106.9	74.2	111.2





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2894
Delta R.T. -0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion:117 Resp: 2134827

Ion	Ratio	Lower	Upper
117	100		
82	66.6	51.1	76.7
119	33.0	43.6	65.4#

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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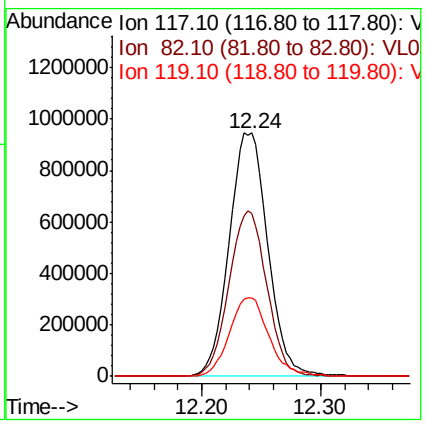
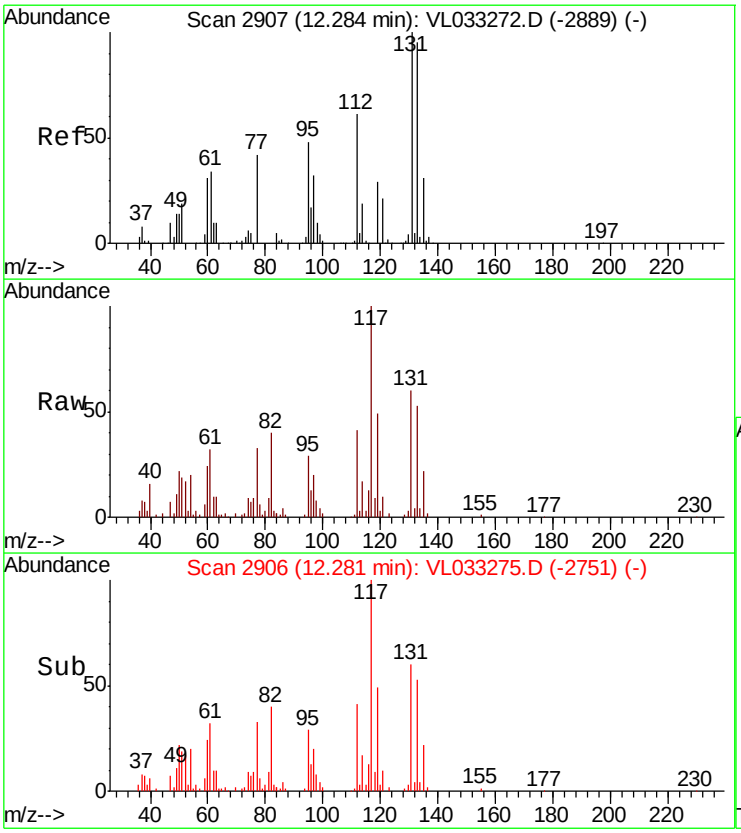
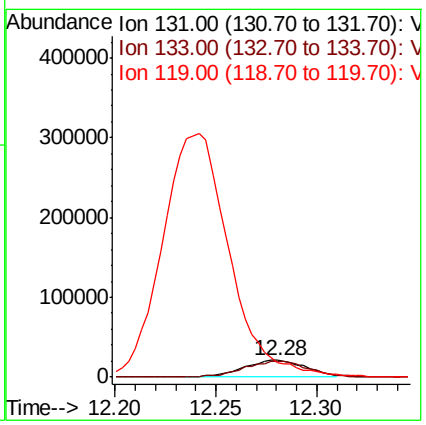


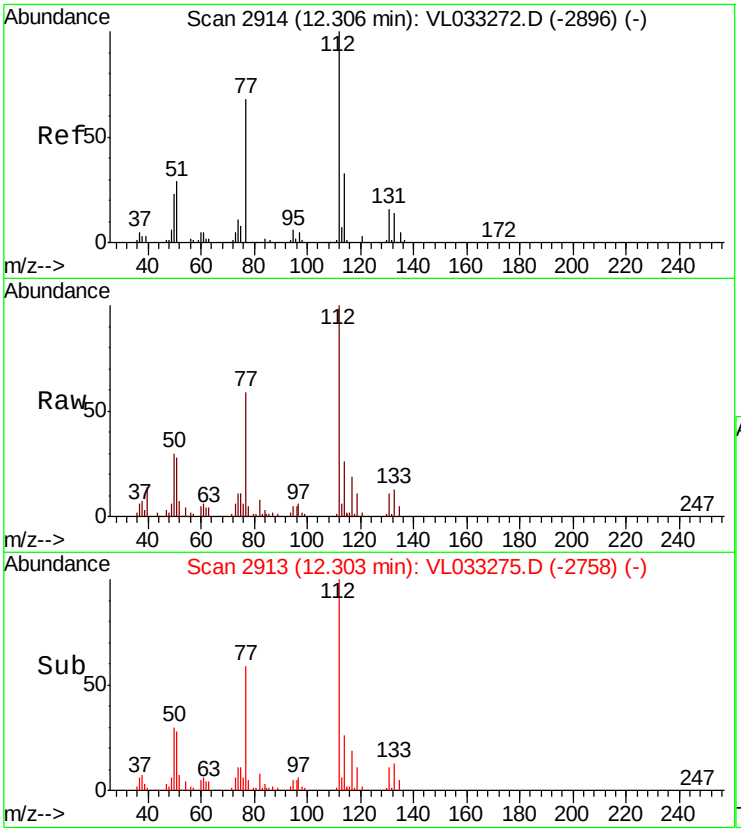


#56
1,1,1,2-Tetrachloroethane
Concen: 0.508 ppbv
RT: 12.28 min Scan# 2906
Delta R.T. -0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion:131 Resp: 45338

Ion	Ratio	Lower	Upper
131	100		
133	97.5	76.2	114.4
119	1556.9	110.3	165.5#





#57
Chlorobenzene
Concen: 0.553 ppbv
RT: 12.30 min Scan# 2913
Delta R.T. -0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion:112 Resp: 86792

Ion	Ratio	Lower	Upper
112	100		
77	58.5	55.8	83.8
114	27.8	29.5	36.1#

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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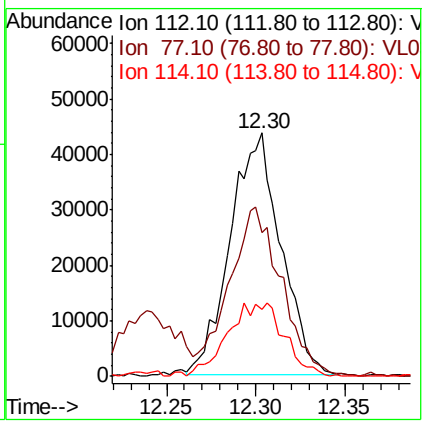
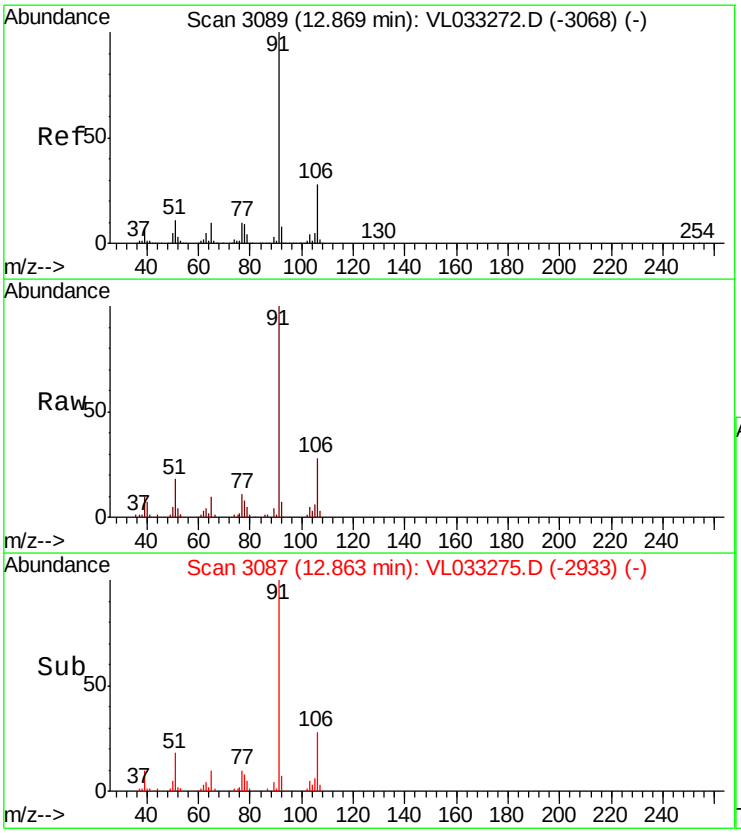
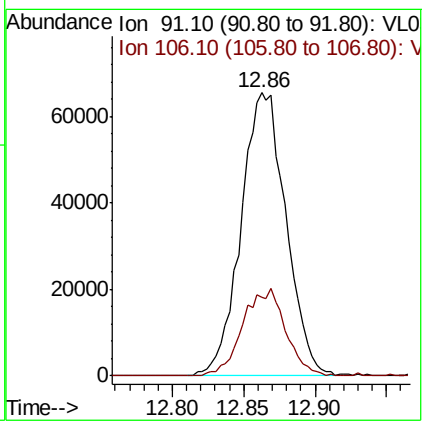


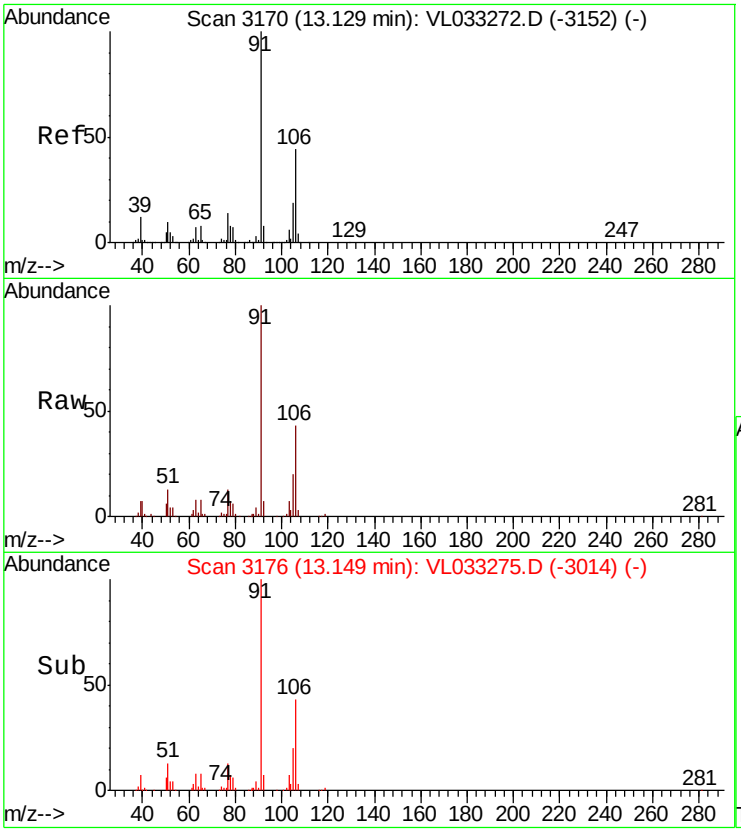


#58
Ethyl Benzene
Concen: 0.495 ppbv m
RT: 12.86 min Scan# 3087
Delta R.T. -0.01 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 91 Resp: 143409

Ion	Ratio	Lower	Upper
91	100		
106	27.9	22.5	33.7





#59
m/p-Xylene
Concen: 0.948 ppbv m
RT: 13.15 min Scan# 3176
Delta R.T. 0.02 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 91 Resp: 248270

Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.5	53.3#

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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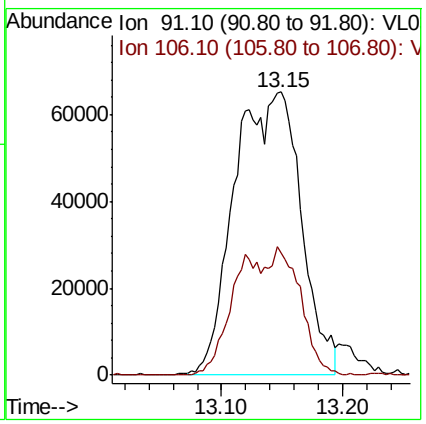
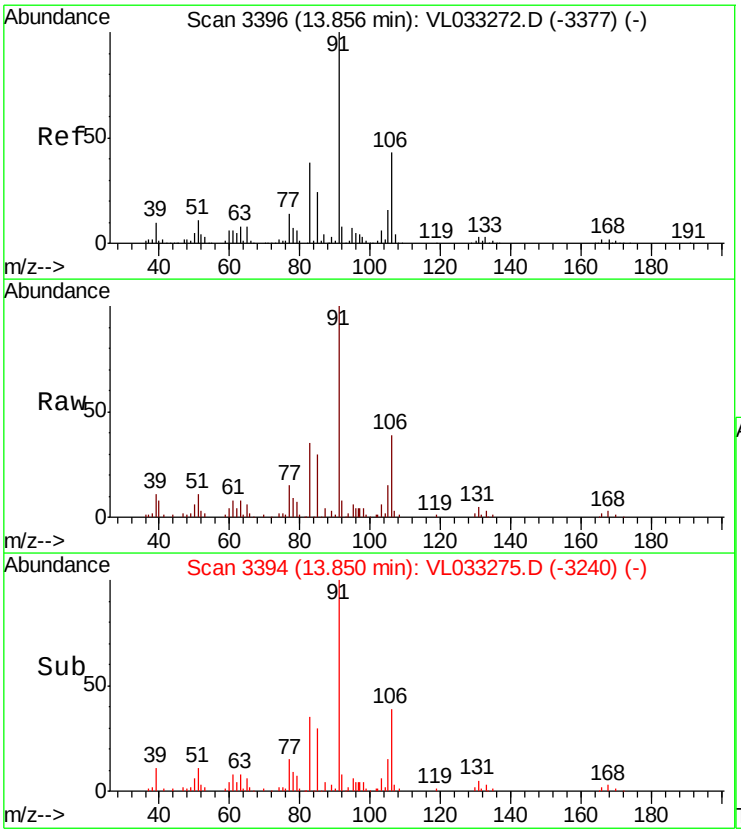
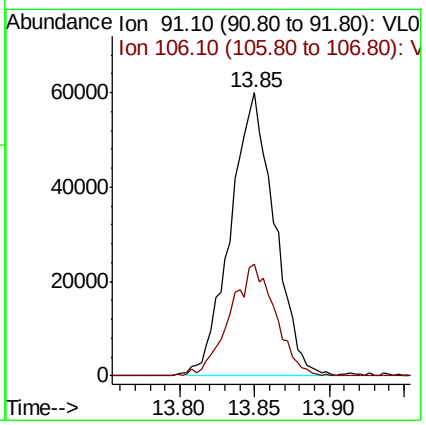


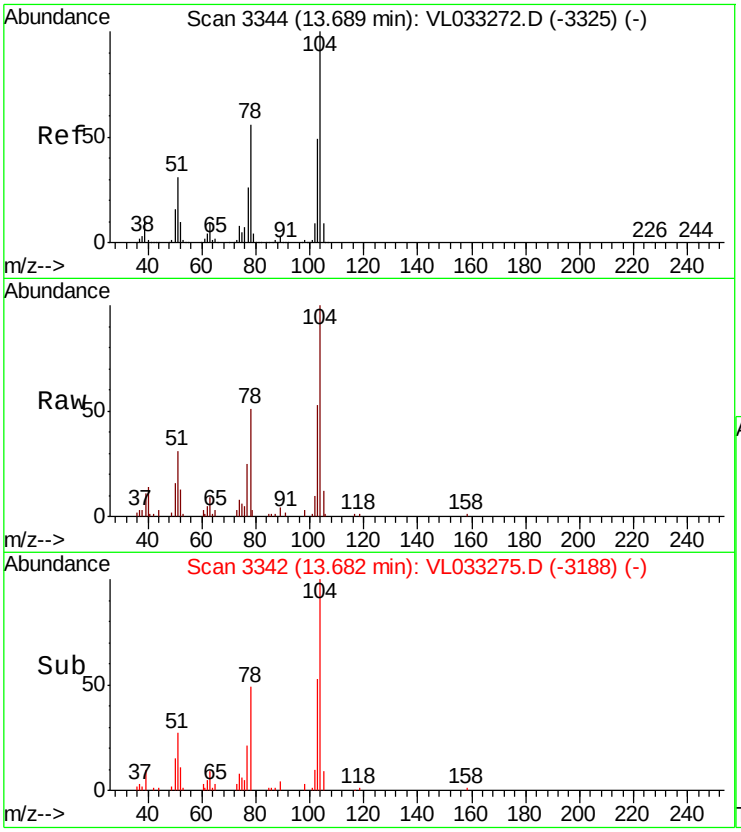


#60
o-Xylene
Concen: 0.485 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. -0.01 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 91 Resp: 122545

Ion	Ratio	Lower	Upper
91	100		
106	40.7	21.3	63.7

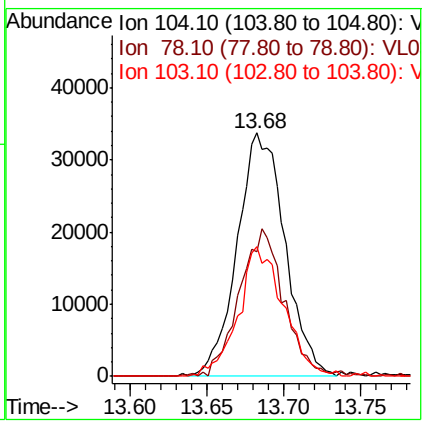




#61
Styrene
Concen: 0.423 ppbv m
RT: 13.68 min Scan# 3342
Delta R.T. -0.01 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion:104 Resp: 72954

Ion	Ratio	Lower	Upper
104	100		
78	57.2	43.3	64.9
103	0.0	38.0	57.0#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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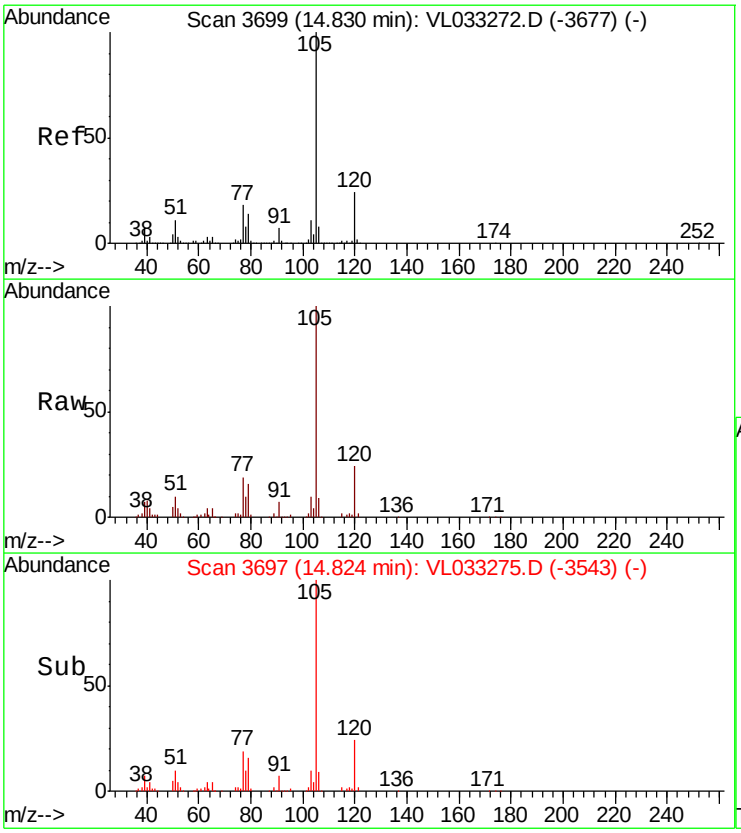
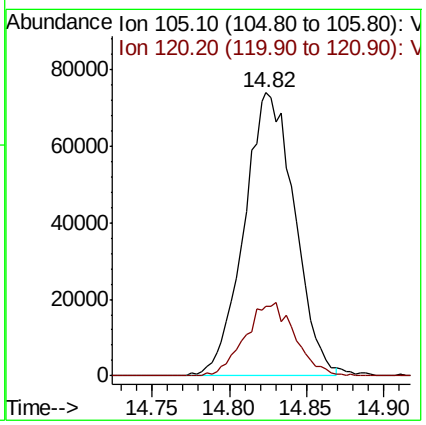
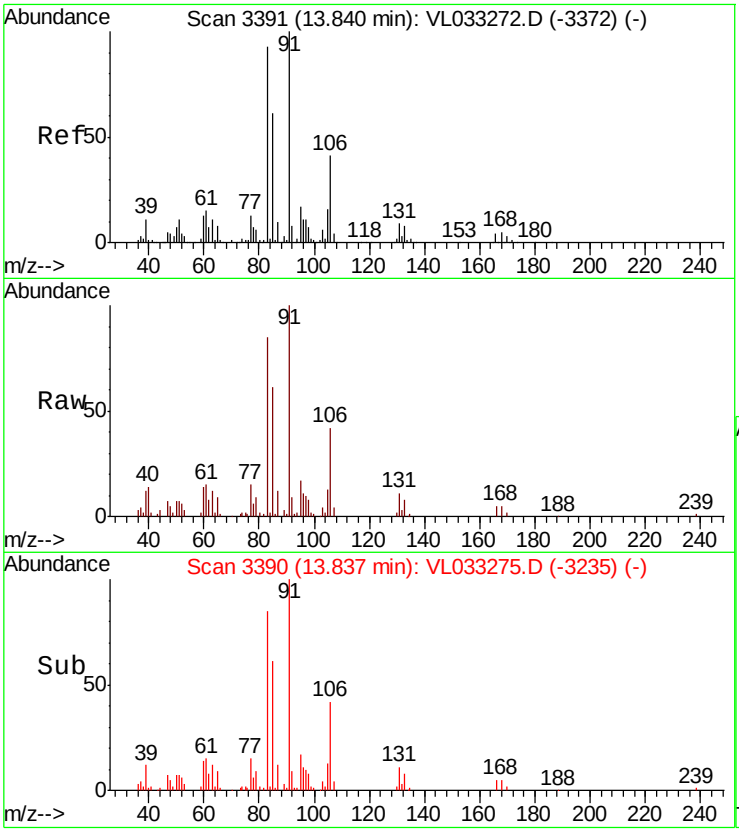


#62
Isopropylbenzene
Concen: 0.497 ppbv
RT: 14.82 min Scan# 3697
Delta R.T. -0.01 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion:105 Resp: 167687

Ion	Ratio	Lower	Upper
105	100		
120	25.4	20.0	30.0

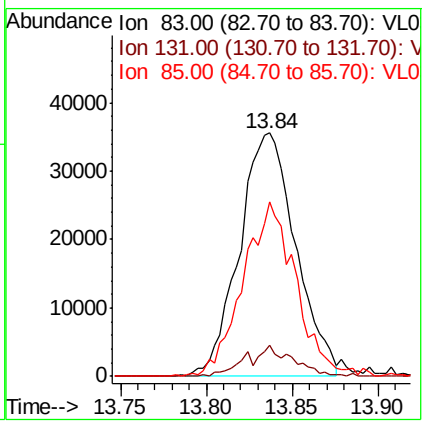




#63
1,1,2,2-Tetrachloroethane
Concen: 0.497 ppbv
RT: 13.84 min Scan# 3390
Delta R.T. -0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 83 Resp: 80907

Ion	Ratio	Lower	Upper
83	100		
131	10.6	4.5	13.7
85	67.7	32.2	96.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED
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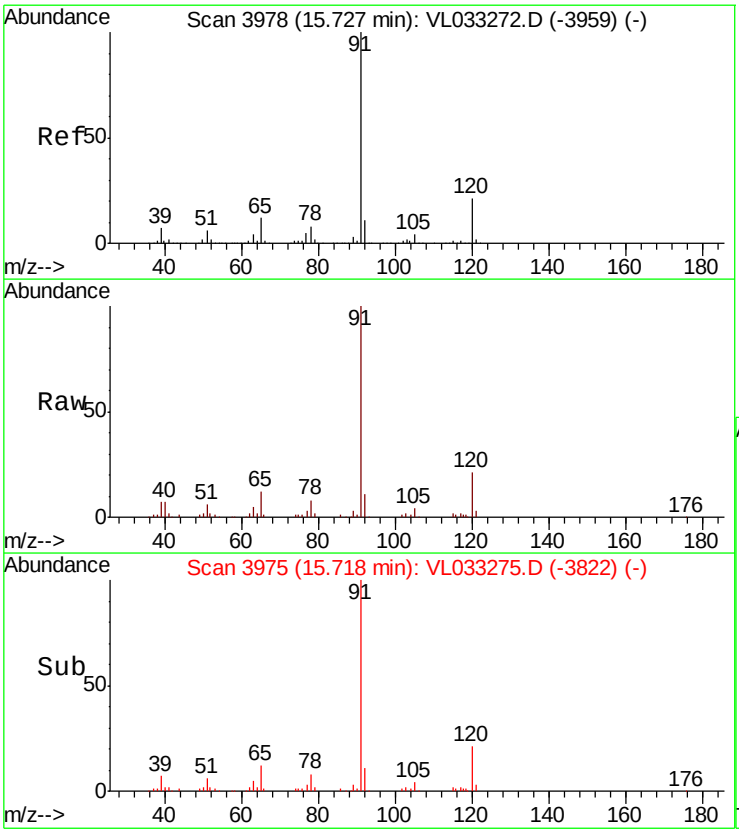
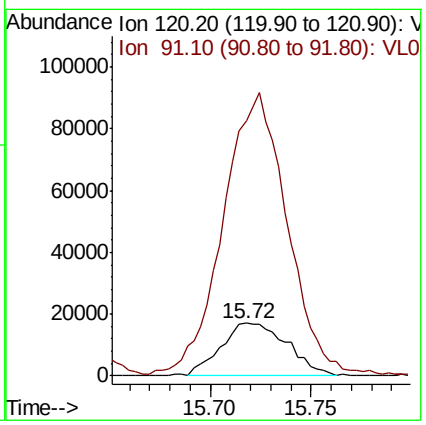
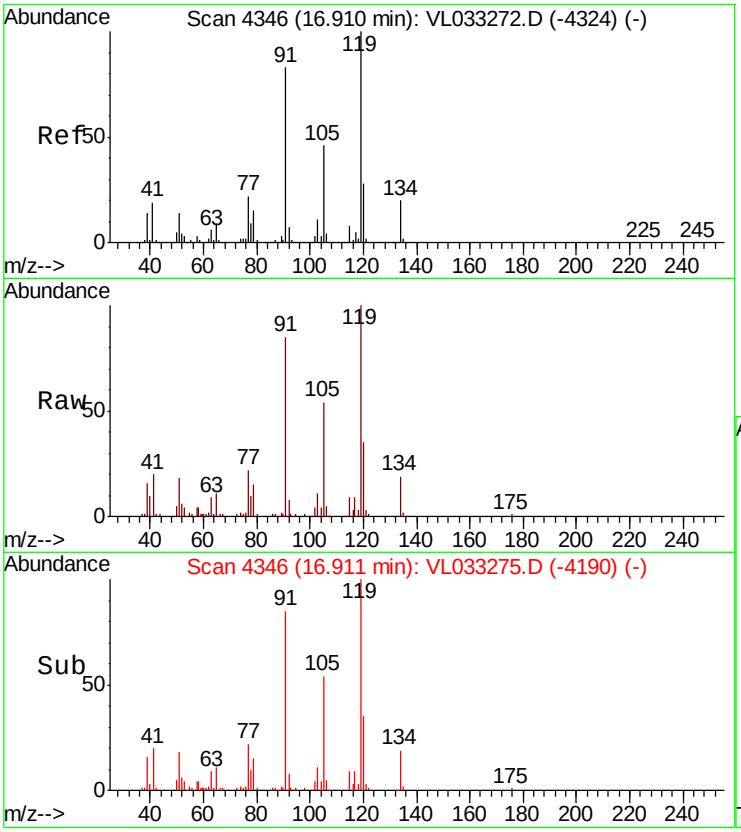


#64
n-propylbenzene
Concen: 0.471 ppbv m
RT: 15.72 min Scan# 3975
Delta R.T. -0.01 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion:120 Resp: 38918

Ion	Ratio	Lower	Upper
120	100		
91	522.9	385.8	578.8

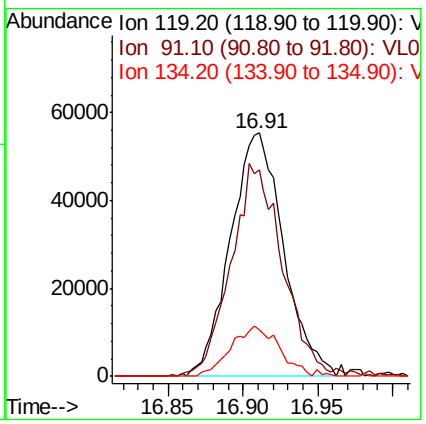




#65
tert-Butylbenzene
Concen: 0.481 ppbv
RT: 16.91 min Scan# 4346
Delta R.T. 0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion:119 Resp: 136551

Ion	Ratio	Lower	Upper
119	100		
91	85.7	67.3	100.9
134	19.2	15.4	23.2



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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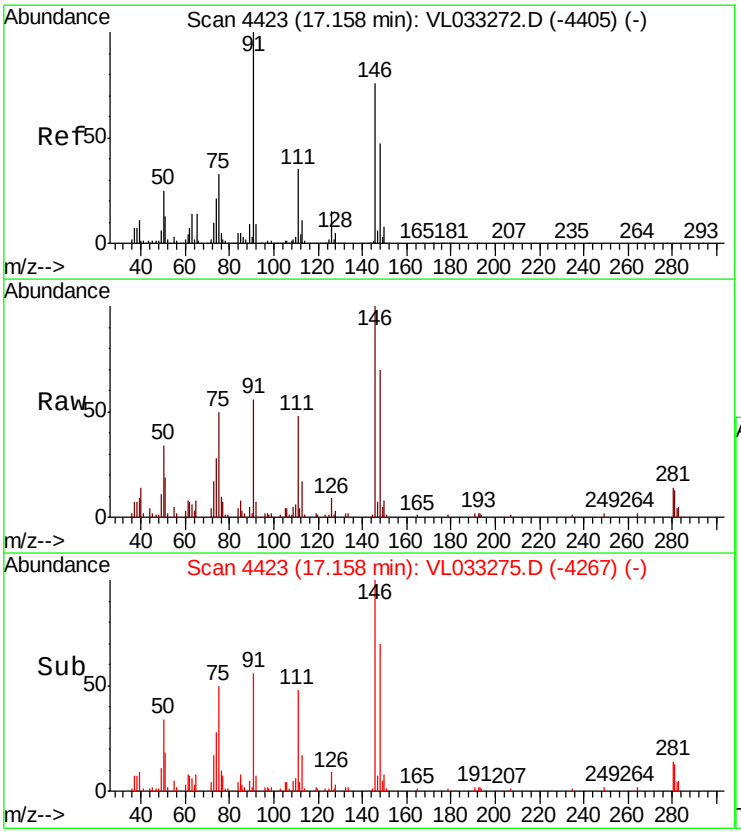
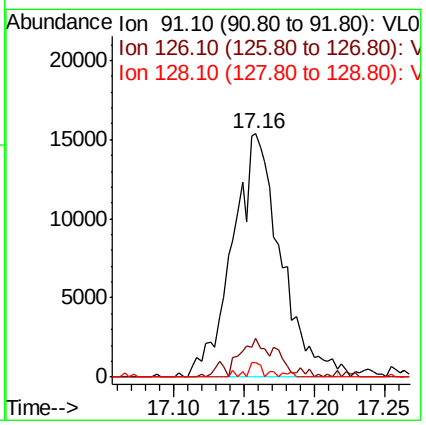
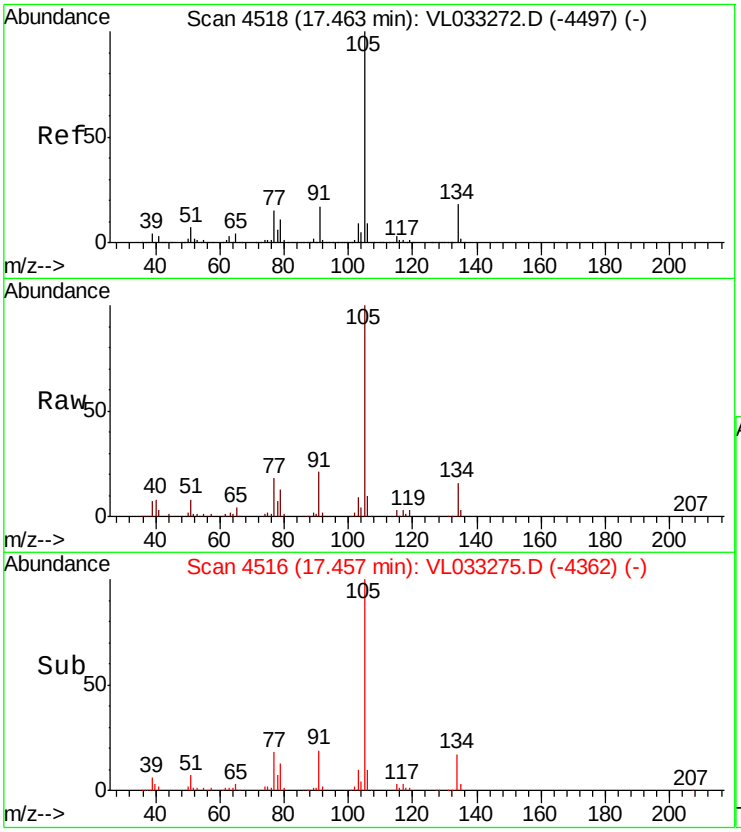


#66
Benzyl Chloride
Concen: 0.344 ppbv m
RT: 17.16 min Scan# 4423
Delta R.T. 0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 91 Resp: 36422

Ion	Ratio	Lower	Upper
91	100		
126	13.6	13.0	19.6
128	2.2	4.3	6.5#





#67
sec-Butylbenzene
Concen: 0.476 ppbv
RT: 17.46 min Scan# 4516
Delta R.T. -0.01 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion:105 Resp: 191657

Ion	Ratio	Lower	Upper
105	100		
134	17.5	14.2	21.2

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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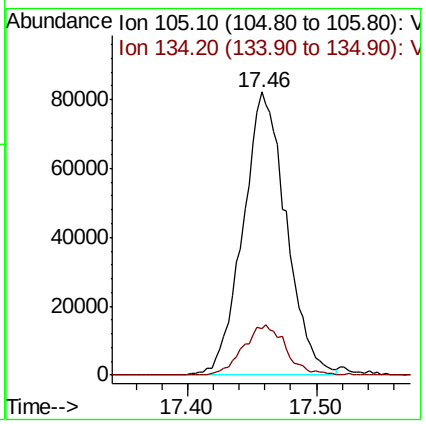
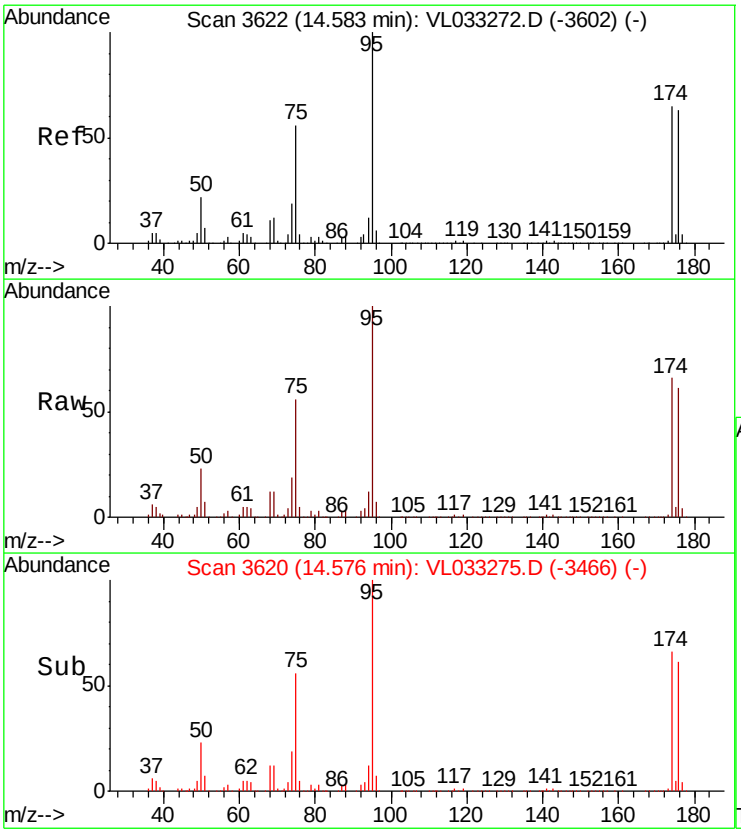
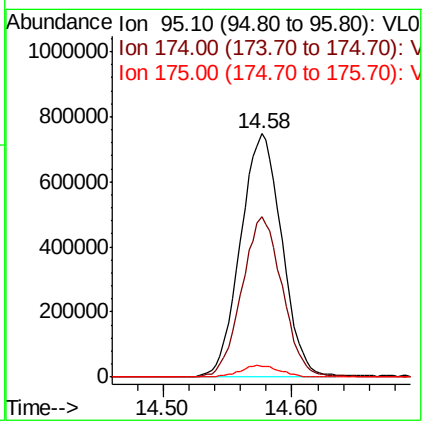


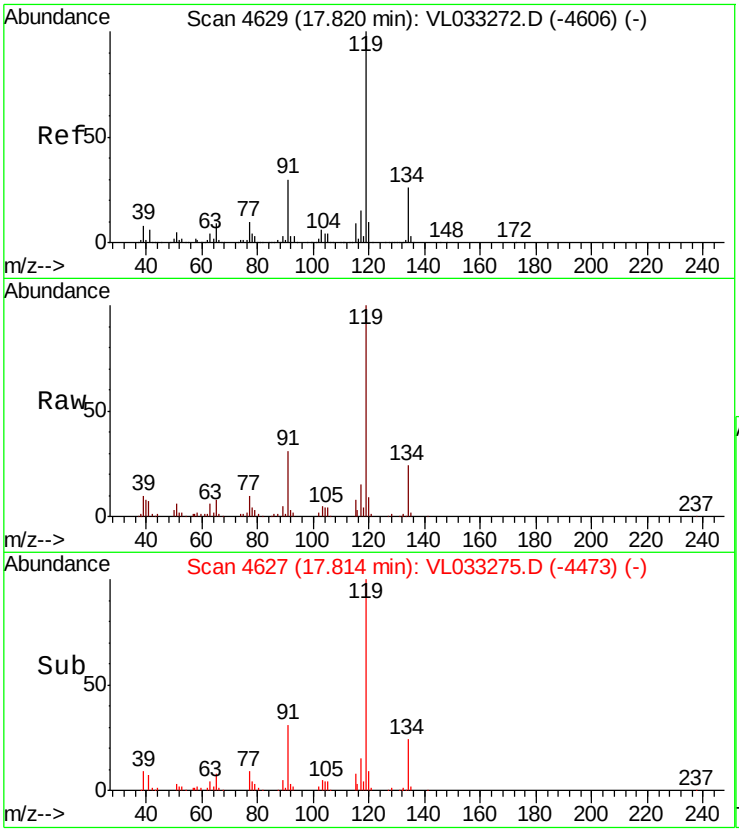


#68
1-Bromo-4-Fluorobenzene
Concen: 9.782 ppbv
RT: 14.58 min Scan# 3620
Delta R.T. -0.01 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 95 Resp: 1671396

Ion	Ratio	Lower	Upper
95	100		
174	65.0	51.7	77.5
175	4.7	3.7	5.5

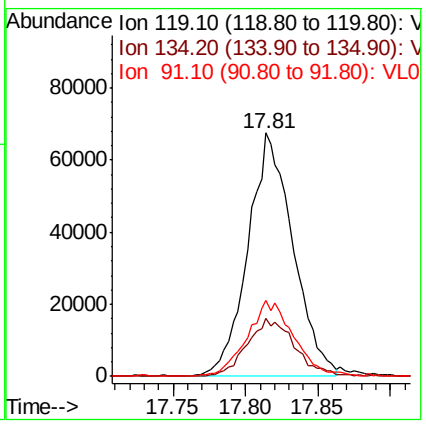




#69
p-Isopropyltoluene
Concen: 0.446 ppbv
RT: 17.81 min Scan# 4627
Delta R.T. -0.01 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion:119 Resp: 145995

Ion	Ratio	Lower	Upper
119	100		
134	25.0	19.7	29.5
91	32.4	23.5	35.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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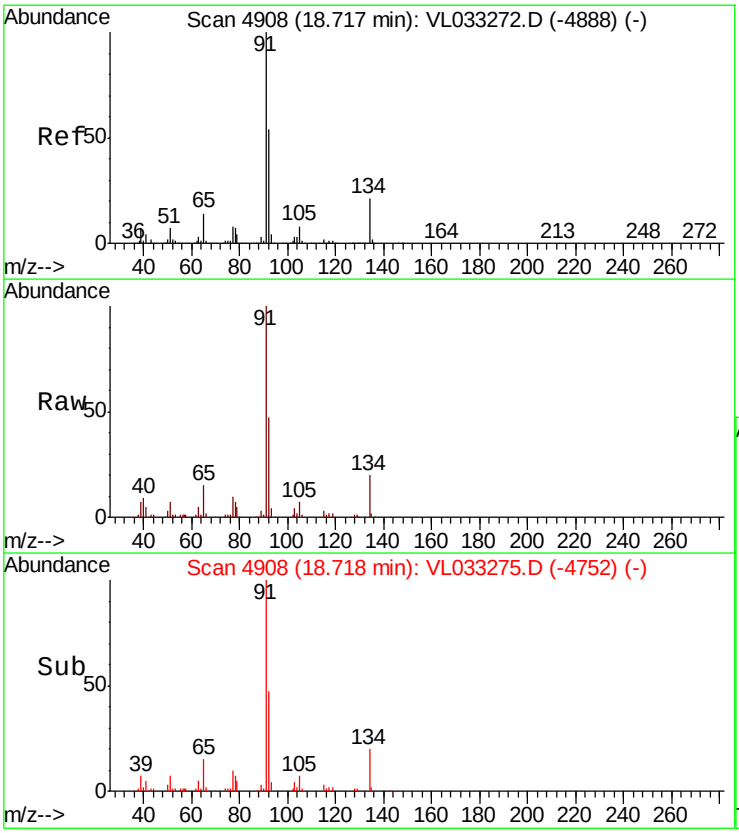
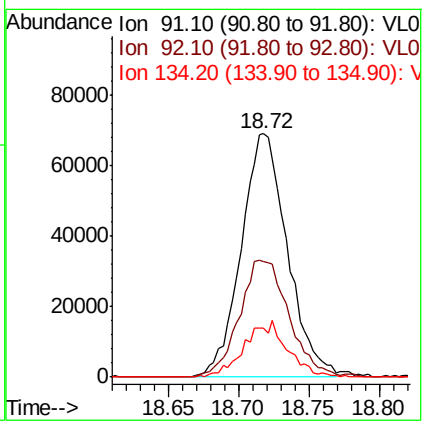
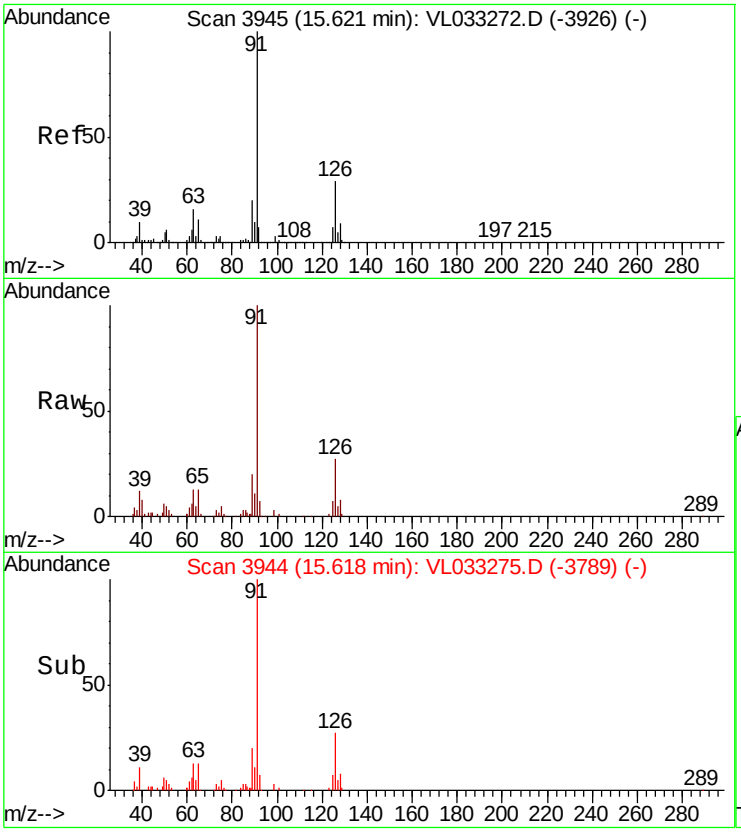


#70
n-Butylbenzene
Concen: 0.447 ppbv
RT: 18.72 min Scan# 4908
Delta R.T. 0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 91 Resp: 158537

Ion	Ratio	Lower	Upper
91	100		
92	51.5	42.4	63.6
134	21.4	17.1	25.7





#71
2-Chlorotoluene
Concen: 0.487 ppbv
RT: 15.62 min Scan# 3944
Delta R.T. -0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion: 91 Resp: 122696

Ion	Ratio	Lower	Upper
91	100		
126	27.9	11.7	46.7

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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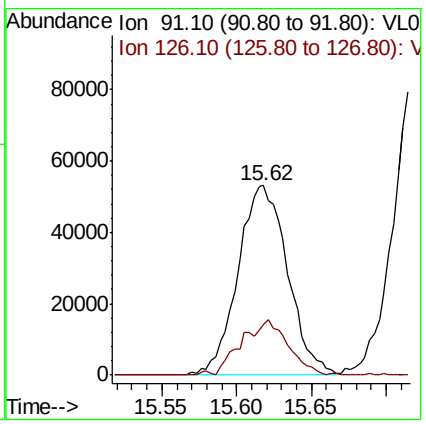
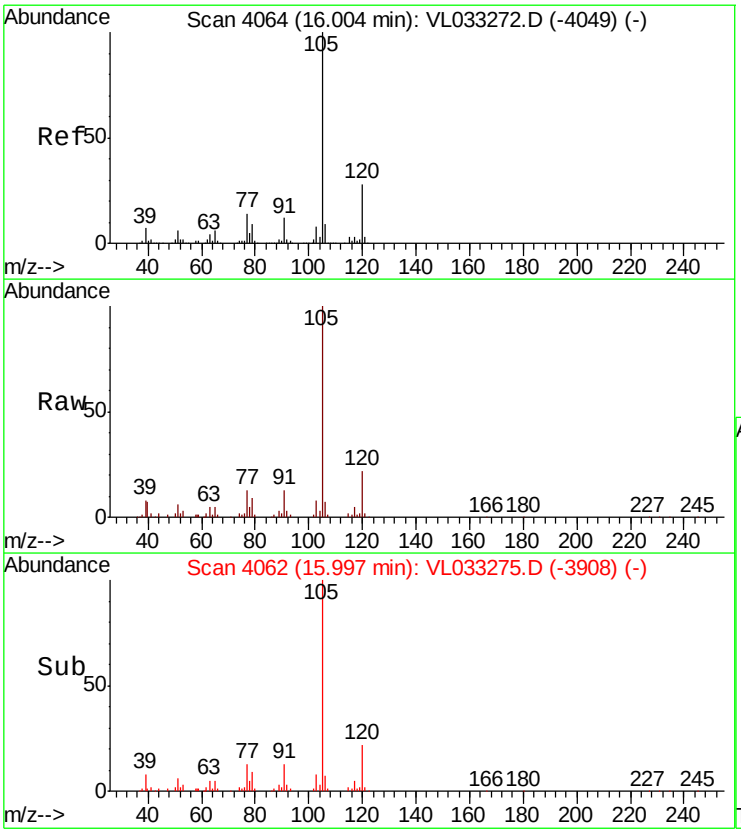
3/14/2019 5:05:42 AM

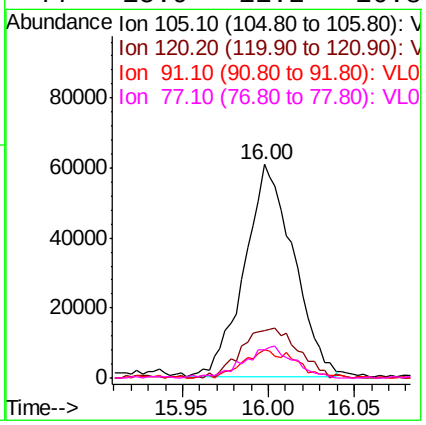


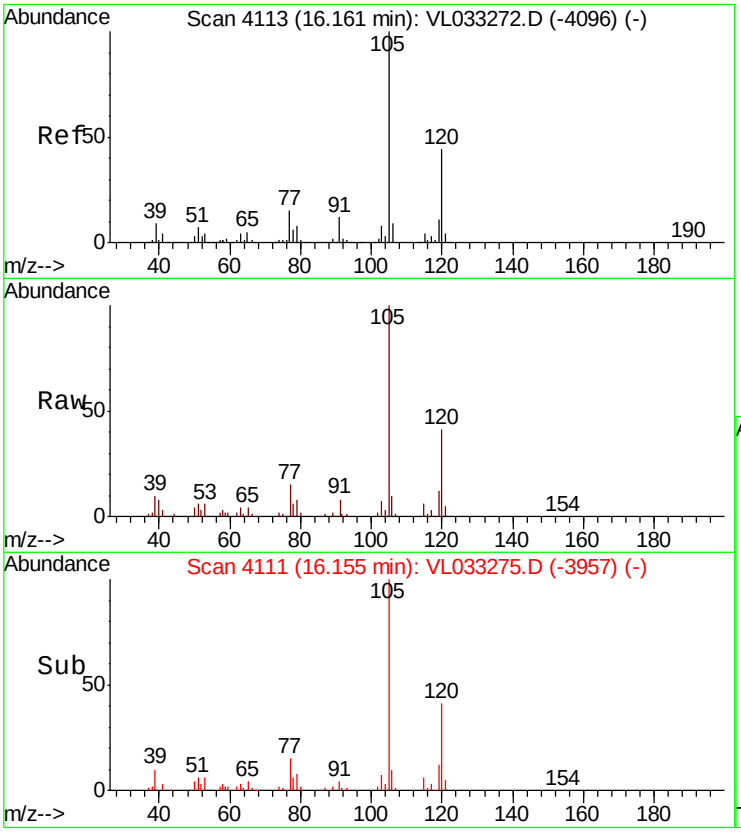


#72
4-Ethyltoluene
Concen: 0.454 ppbv
RT: 16.00 min Scan# 4062
Delta R.T. -0.01 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion:105 Resp: 119140

Ion	Ratio	Lower	Upper
105	100		
120	27.7	22.9	34.3
91	14.8	10.2	15.2
77	15.9	11.2	16.8

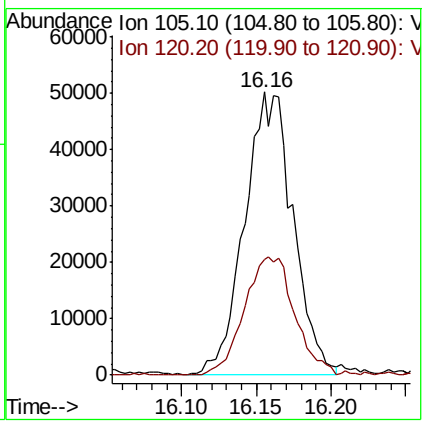




#73
1,3,5-Trimethylbenzene
Concen: 0.452 ppbv m
RT: 16.16 min Scan# 4111
Delta R.T. -0.01 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion:105 Resp: 112984

Ion	Ratio	Lower	Upper
105	100		
120	41.1	35.1	52.7



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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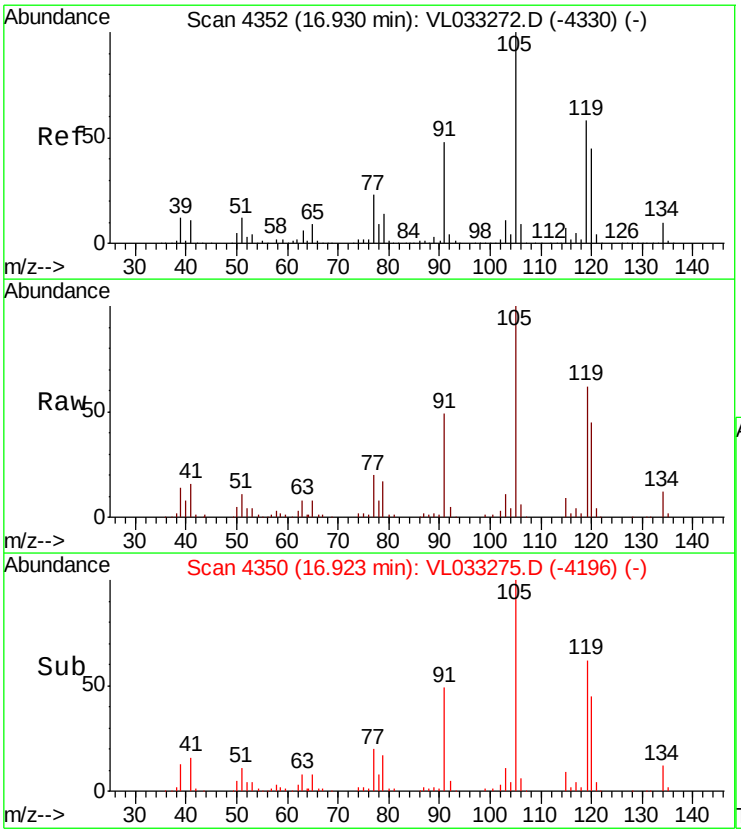
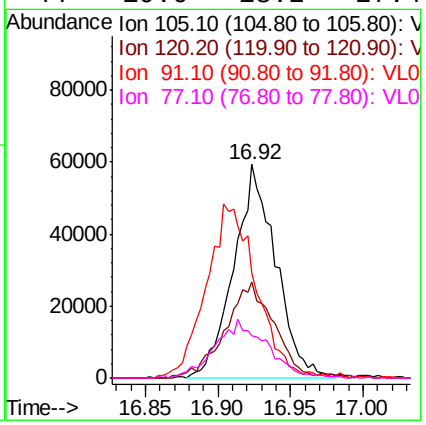
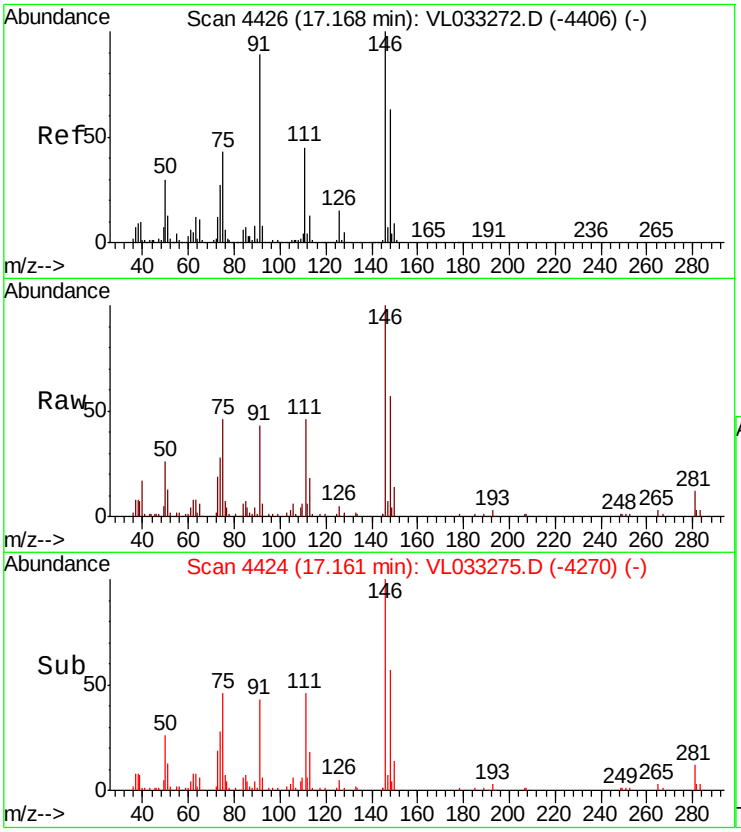


#74
1,2,4-Trimethylbenzene
Concen: 0.457 ppbv
RT: 16.92 min Scan# 4350
Delta R.T. -0.01 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion:105 Resp: 119279

Ion	Ratio	Lower	Upper
105	100		
120	48.0	36.1	54.1
91	47.8	38.6	58.0
77	19.0	18.2	27.4

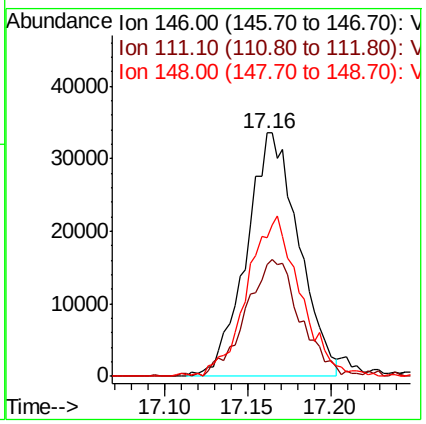




#75
1,3-Dichlorobenzene
Concen: 0.480 ppbv
RT: 17.16 min Scan# 4424
Delta R.T. -0.01 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion:146 Resp: 73832

Ion	Ratio	Lower	Upper
146	100		
111	50.8	22.8	68.4
148	66.8	31.8	95.3



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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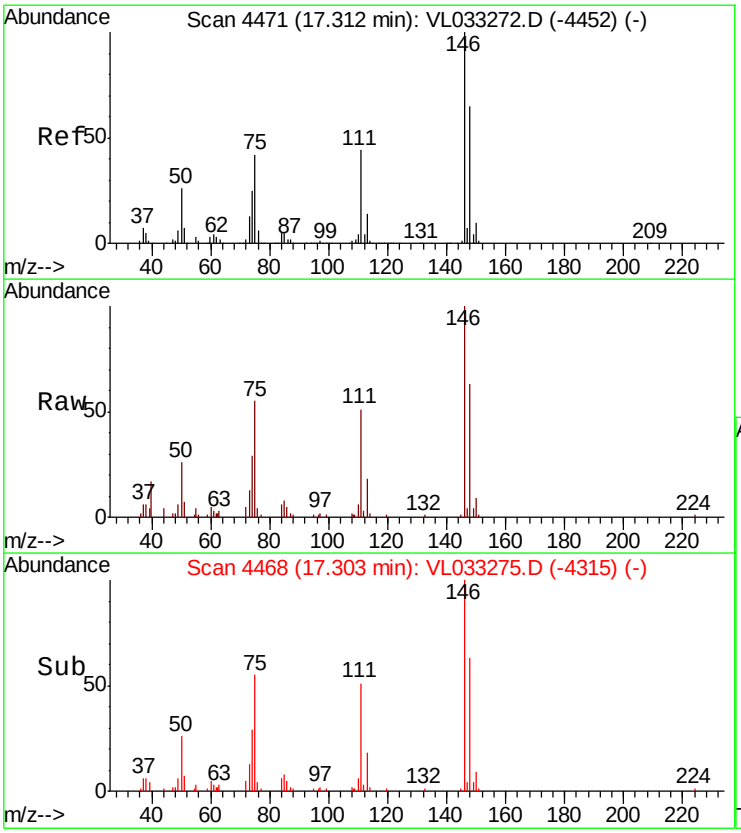
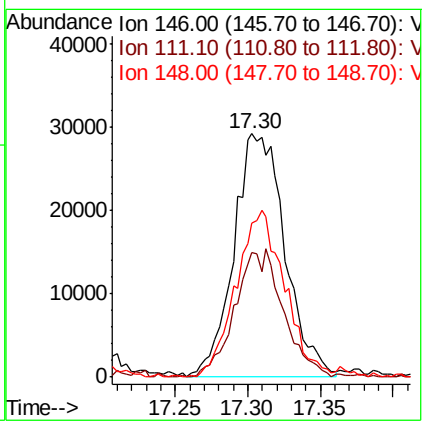
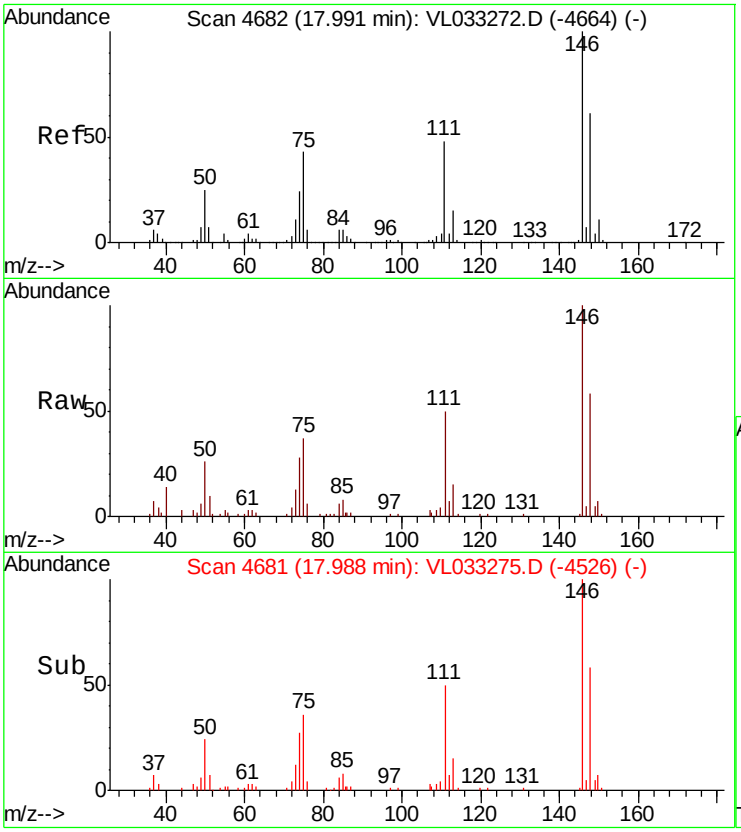


#76
1,4-Dichlorobenzene
Concen: 0.474 ppbv
RT: 17.30 min Scan# 4468
Delta R.T. -0.01 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion:146 Resp: 71615

Ion	Ratio	Lower	Upper
146	100		
111	49.6	22.1	66.1
148	66.9	31.8	95.3

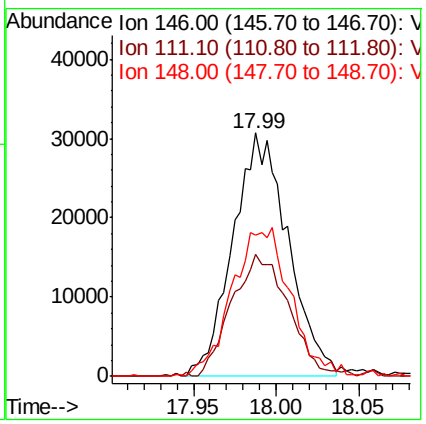




#77
1,2-Dichlorobenzene
Concen: 0.478 ppbv
RT: 17.99 min Scan# 4681
Delta R.T. -0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion:146 Resp: 71008

Ion	Ratio	Lower	Upper
146	100		
111	52.5	23.5	70.5
148	64.3	31.7	95.1



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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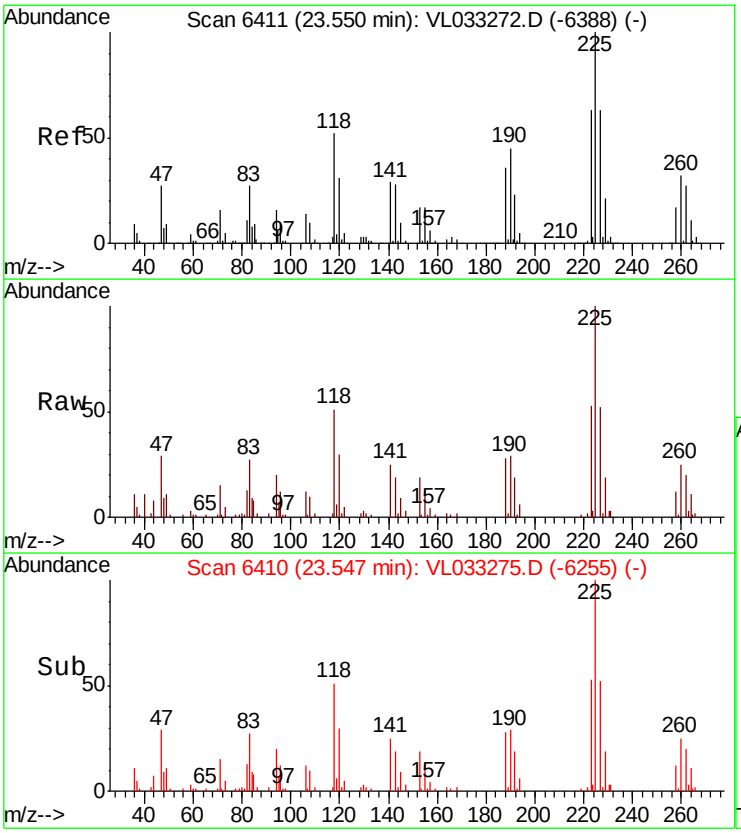
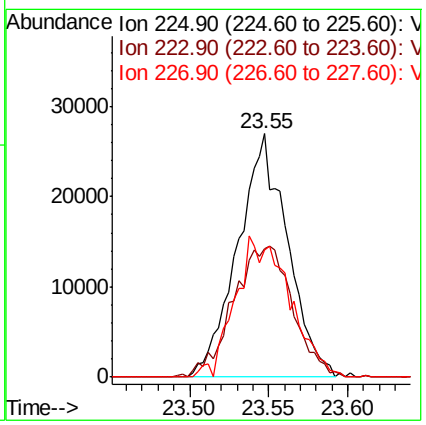
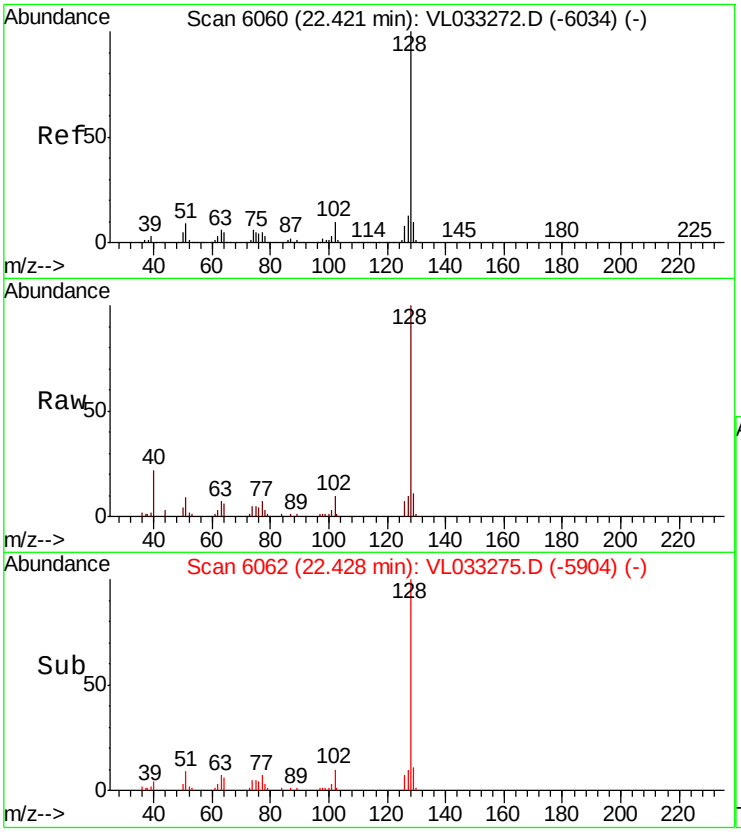


#78
Hexachloro-1,3-Butadiene
Concen: 0.525 ppbv m
RT: 23.55 min Scan# 6410
Delta R.T. -0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion:225 Resp: 59153

Ion	Ratio	Lower	Upper
225	100		
223	0.0	50.3	75.5#
227	63.0	51.1	76.7





#79
Naphthalene
Concen: 0.261 ppbv m
RT: 22.43 min Scan# 6062
Delta R.T. 0.01 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion:128 Resp: 74310

Ion	Ratio	Lower	Upper
128	100		
127	10.4	10.5	15.7#
129	10.5	8.4	12.6

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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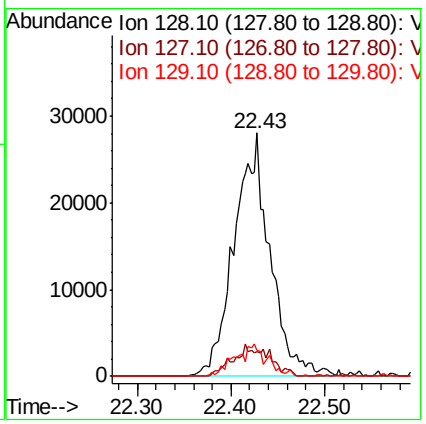
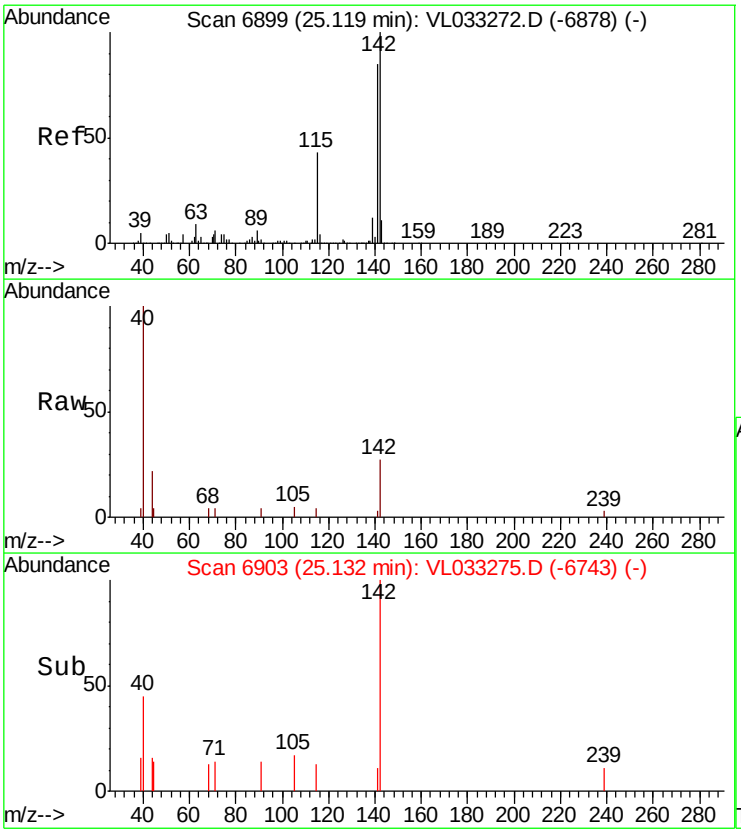
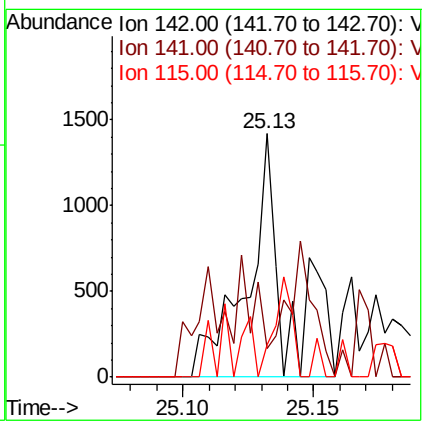


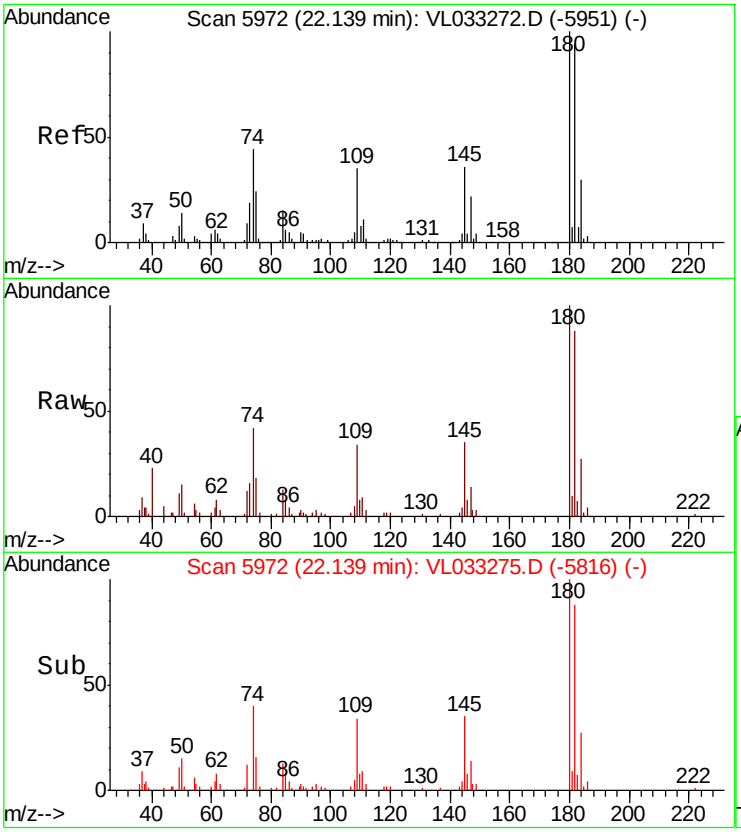


#80
Naphthalene,2-methyl-
Concen: 0.021 ppbv m
RT: 25.13 min Scan# 6903
Delta R.T. 0.01 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion:142 Resp: 1440

Ion	Ratio	Lower	Upper
142	100		
141	106.7	68.0	102.0#
115	40.3	33.8	50.6

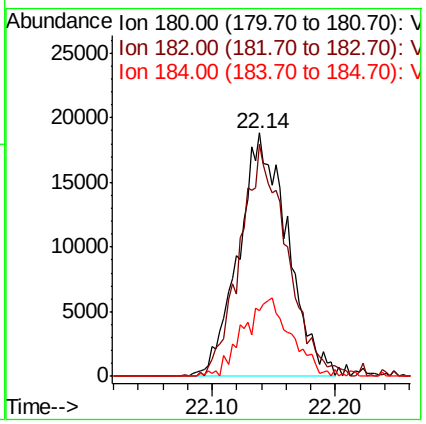




#81
1,2,4-Trichlorobenzene
Concen: 0.351 ppbv m
RT: 22.14 min Scan# 5972
Delta R.T. 0.00 min
Lab File: VL033275.D
Acq: 12 Mar 2019 4:15

Tgt Ion:180 Resp: 51715

Ion	Ratio	Lower	Upper
180	100		
182	91.6	76.6	114.8
184	0.0	24.2	36.4#



Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

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