Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL120718\

Quantitation Report (Not Reviewed)

Data File : VL032946.D
Acq On : 7 Dec 2018 22:27
Operator : SY/AP
Sample : J6262-04DL 40X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : SV2

Quant Time: Dec 08 02:03:30 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL120718AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Dec 07 09:35:17 2018
QLast Update : Fri Dec 07 09:35:17 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	5.76	49	1236647	10.00	ppbv		0.00
33) 1,4-Difluorobenzene	7.30	114	3032408	10.00	ppbv		0.00
55) Chlorobenzene-d5	12.25	117	3025513	10.00	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	14.58	95	2552605	11.42	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 114.20%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.08	85	64481	0.391	ppbv		90
3) Chlorodifluoromethane	3.02	51	712236	7.605	ppbv		95
4) Chloromethane	3.17	50	8249	0.151	ppbv		90
5) Vinyl Chloride	3.30	62	20592	0.371	ppbv		97
9) Propene	3.24	41	102184	2.759	ppbv		86
10) Heptane	8.25	43	5770	0.041	ppbv	#	62
11) Trichlorofluoromethane	4.01	101	6198	0.040	ppbv		99
13) Ethanol	3.67	45	9271	0.727	ppbv	#	39
15) Acetone	3.92	43	191502	1.804	ppbv		92
16) 1,3-Butadiene	3.35	39	5594	0.133	ppbv	#	31
18) 1,1-Dichloroethene	4.36	96	4258	0.082	ppbv		90
19) Isopropyl Alcohol	4.06	45	36775	0.552	ppbv	#	93
20) Methylene Chloride	4.41	84	22428	0.432	ppbv	#	86
21) Allyl Chloride	4.19	41	226469	2.618	ppbv	#	50
22) trans-1,2-Dichloroethene	4.97	96	668915	10.371	ppbv		97
23) Vinyl Acetate	5.14	43	35285	0.196	ppbv	#	38
24) 1,1-Dichloroethane	4.96	63	348158	2.228	ppbv	#	1
25) Ethyl Acetate	5.78	43	71468	0.285	ppbv	#	90
26) Hexane	5.78	57	48784	0.421	ppbv	#	72
27) Carbon Disulfide	4.62	76	59532	0.411	ppbv	#	82
28) Methyl tert-Butyl Ether	5.13	73	79624	0.458	ppbv		99
29) Chloroform	5.85	83	239317	1.159	ppbv		95
31) cis-1,2-Dichloroethene	5.64	61	1409548	13.269	ppbv		98
34) 2-Butanone	5.35	43	4021	0.030	ppbv	#	52
36) Benzene	7.01	78	26353	0.118	ppbv	#	86
38) Trichloroethene	7.97	130	6588303	70.978	ppbv		98
39) 1,2-Dichloropropane	7.96	63	28925	0.342	ppbv	#	1
42) Bromodichloromethane	7.97	83	94144	0.447	ppbv	#	93
52) Tetrachloroethene	11.41	164	20830626	256.752	ppbv		89
53) Toluene	9.96	91	64132	0.271	ppbv		98
59) m/p-Xylene	13.16	91	25098	0.086	ppbv	#	100
60) o-Xylene	13.86	91	88124	0.298	ppbv		100
65) tert-Butylbenzene	16.92	119	12290	0.032	ppbv	#	18
71) 2-Chlorotoluene	15.72	91	45128	0.147	ppbv		80
72) 4-Ethyltoluene	16.01	105	14801	0.045	ppbv	#	1
73) 1,3,5-Trimethylbenzene	16.16	105	24030	0.075	ppbv		96
74) 1,2,4-Trimethylbenzene	16.93	105	83487	0.230	ppbv	#	66

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

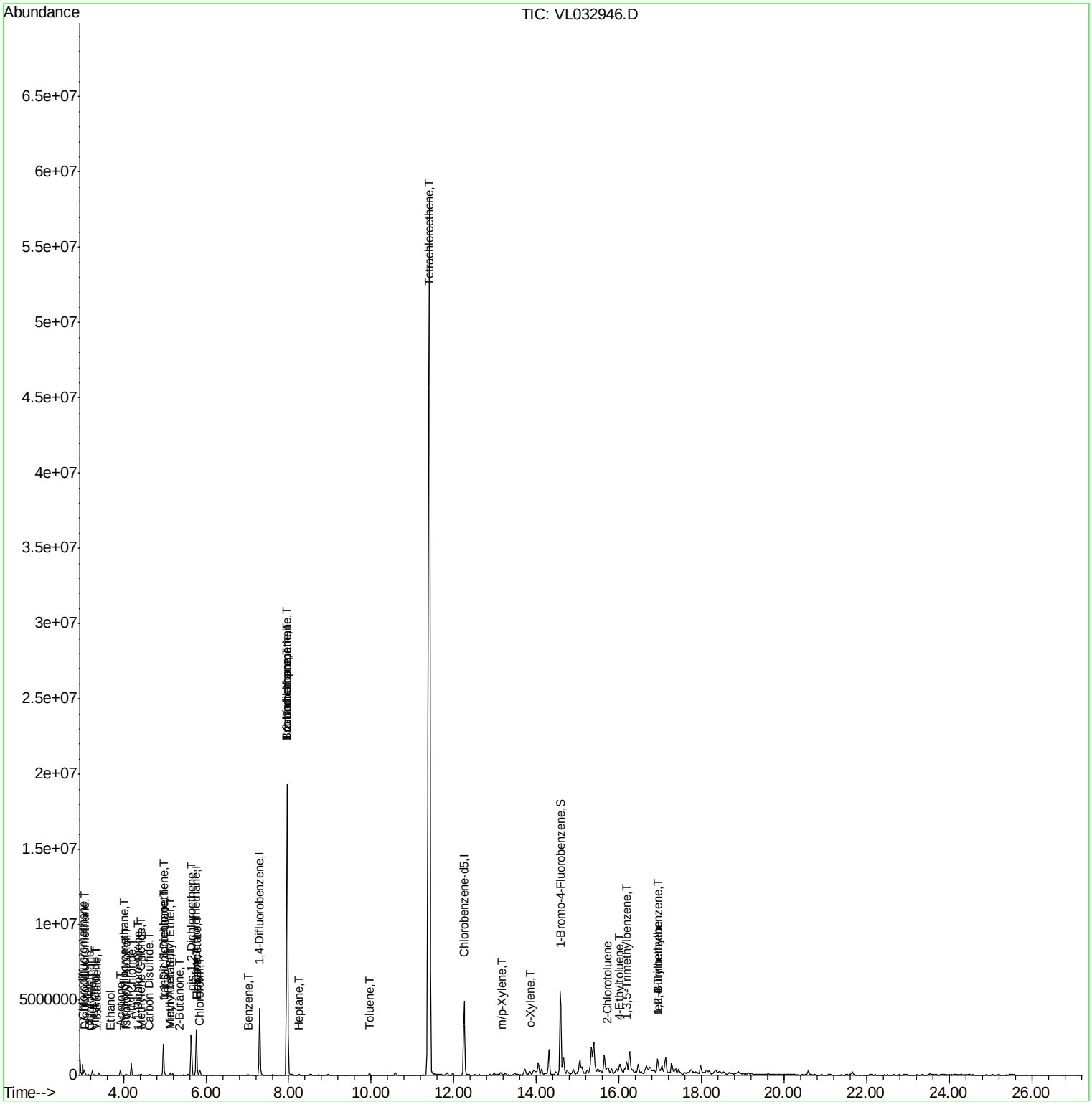
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL120718\

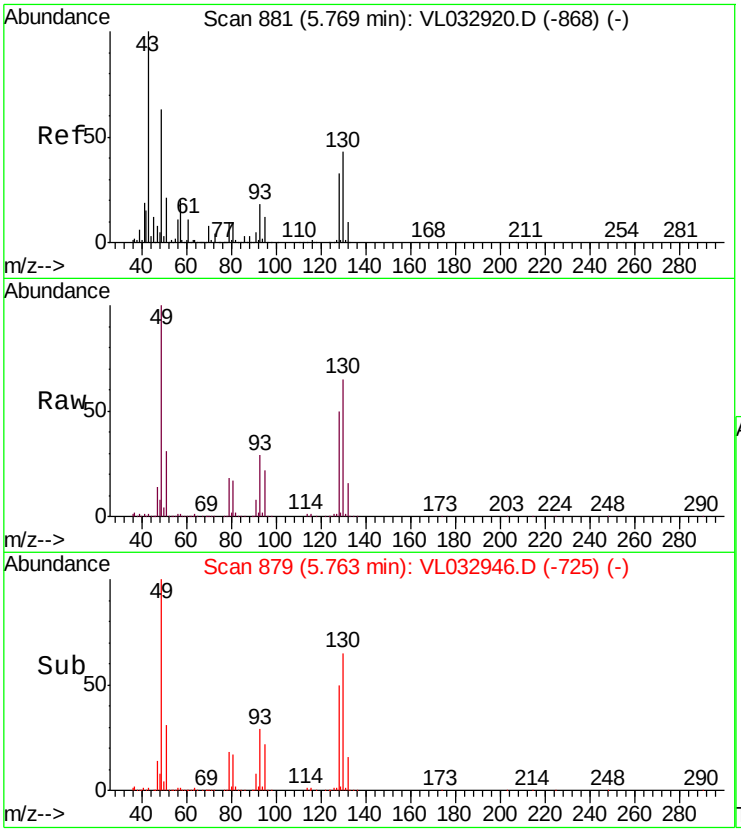
Quantitation Report (Not Reviewed)

Data File : VL032946.D
Acq On : 7 Dec 2018 22:27
Operator : SY/AP
Sample : J6262-04DL 40X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : SV2

Quant Time: Dec 08 02:03:30 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL120718AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Dec 07 09:35:17 2018
QLast Update : Fri Dec 07 09:35:17 2018
Response via : Initial Calibration



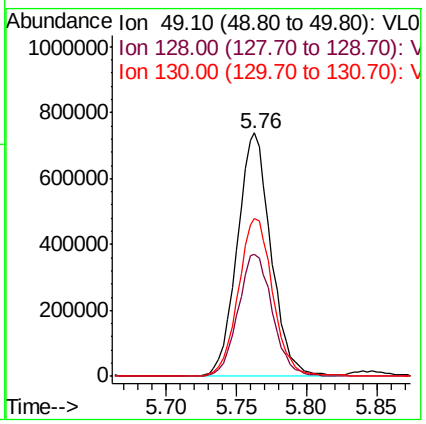


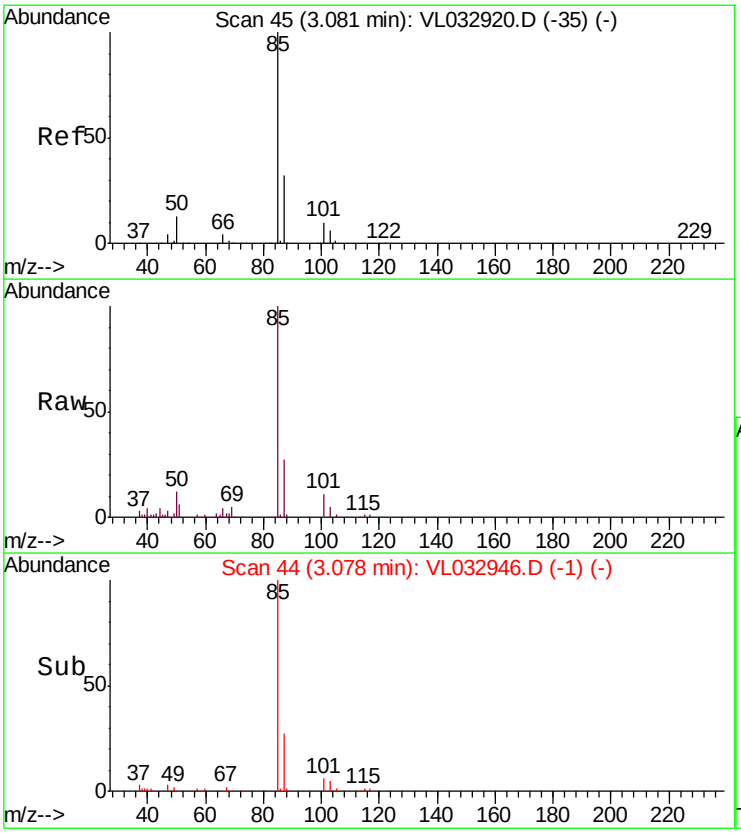
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.76 min Scan# 879
Delta R.T. -0.01 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 49 Resp: 1236647

Ion	Ratio	Lower	Upper
49	100		
128	51.1	26.3	78.8
130	67.0	33.9	101.7

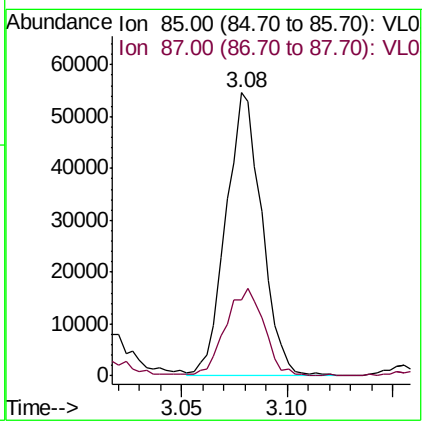


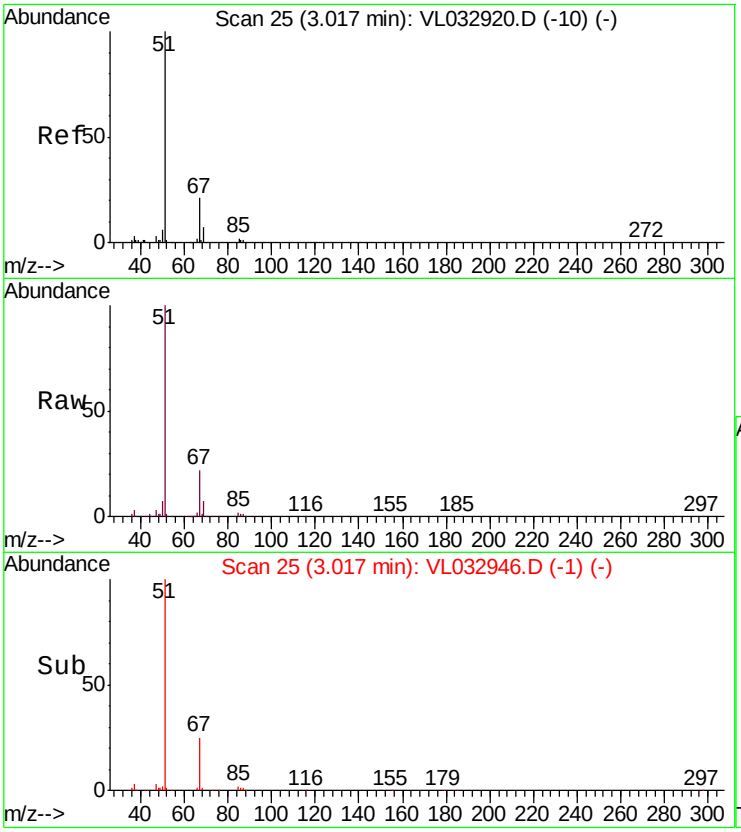


#2
Dichlorodifluoromethane
Concen: 0.391 ppbv
RT: 3.08 min Scan# 44
Delta R.T. -0.00 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Tgt Ion: 85 Resp: 64481

Ion	Ratio	Lower	Upper
85	100		
87	26.6	25.7	38.5



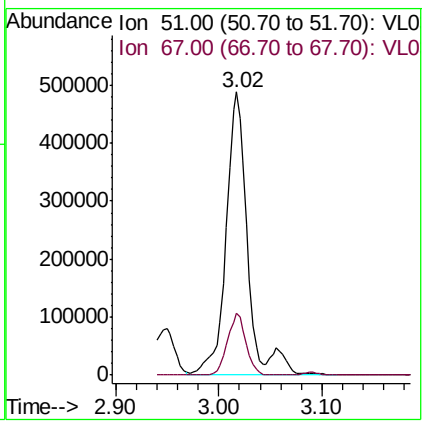


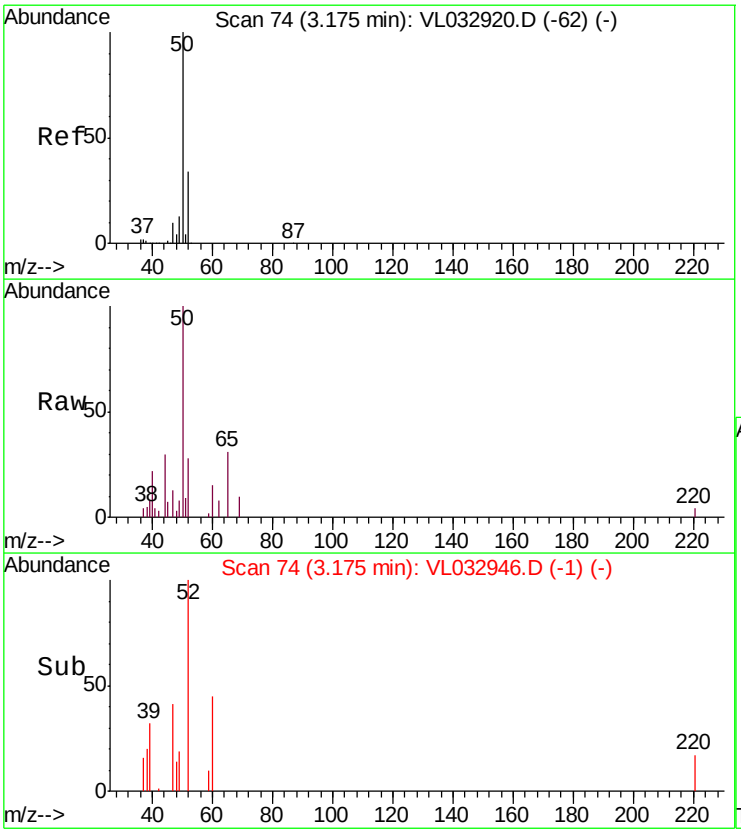
#3
Chlorodifluoromethane
Concen: 7.605 ppbv
RT: 3.02 min Scan# 25
Delta R.T. -0.00 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 51 Resp: 712236

Ion	Ratio	Lower	Upper
51	100		
67	18.7	16.8	25.2

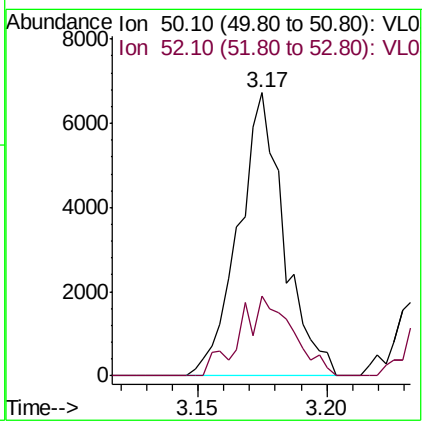


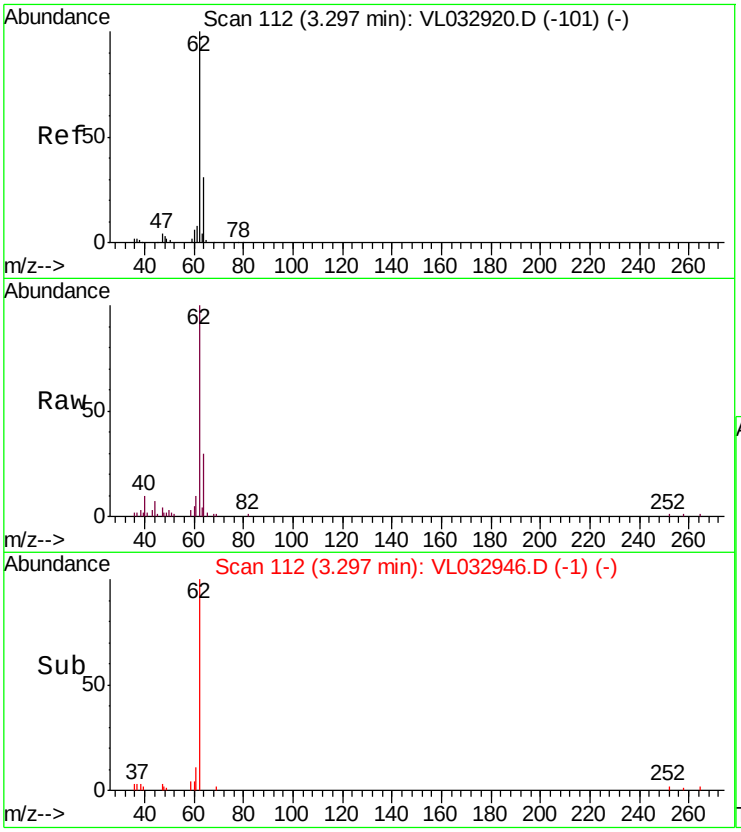


#4
Chloromethane
Concen: 0.151 ppbv
RT: 3.17 min Scan# 74
Delta R.T. -0.00 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Tgt Ion: 50 Resp: 8249

Ion	Ratio	Lower	Upper
50	100		
52	28.3	27.3	40.9



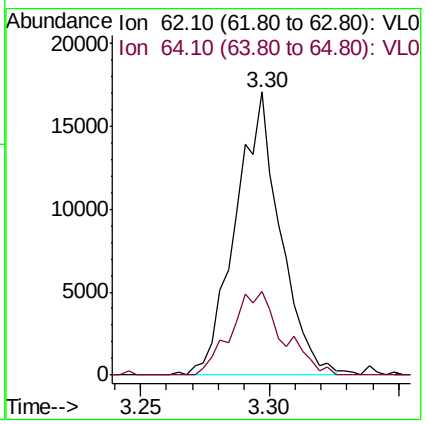


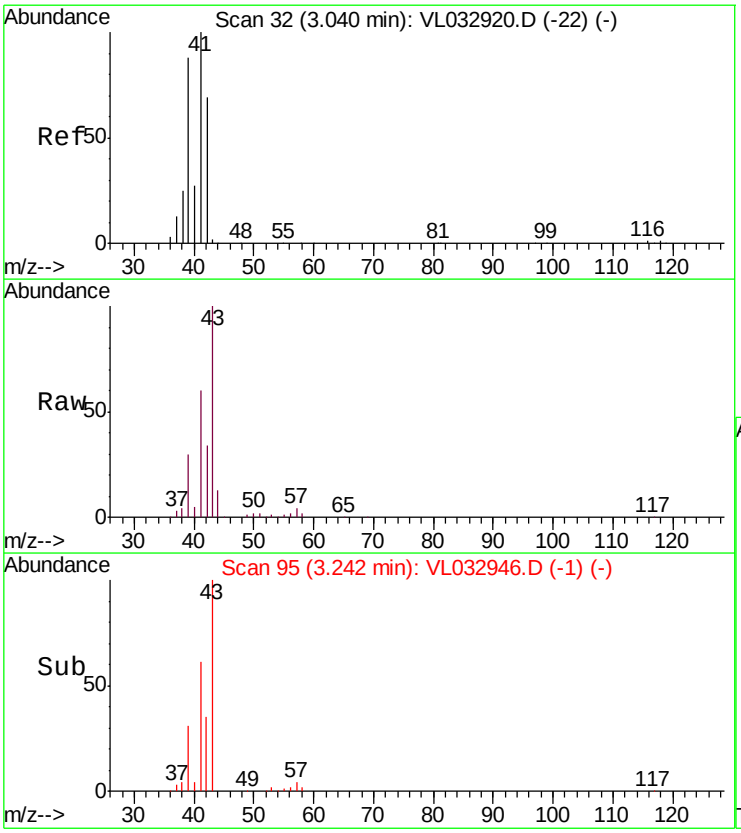
#5
Vinyl Chloride
Concen: 0.371 ppbv
RT: 3.30 min Scan# 112
Delta R.T. -0.00 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 62 Resp: 20592

Ion	Ratio	Lower	Upper
62	100		
64	29.5	24.8	37.2

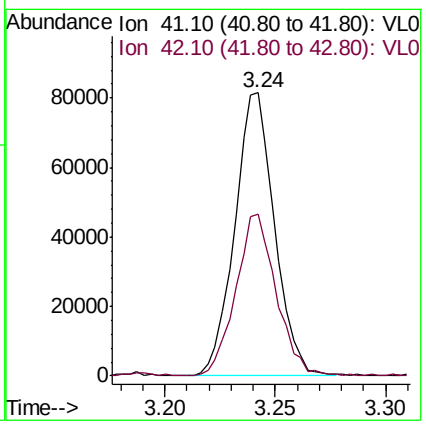


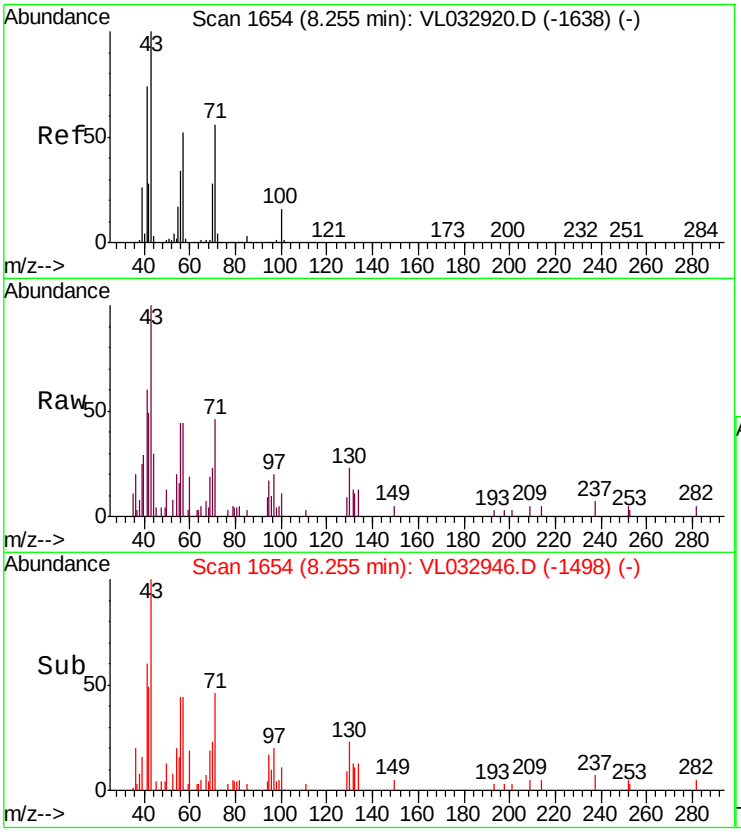


#9
Propene
Concen: 2.759 ppbv
RT: 3.24 min Scan# 95
Delta R.T. 0.20 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Tgt Ion: 41 Resp: 102184

Ion	Ratio	Lower	Upper
41	100		
42	58.3	56.2	84.2



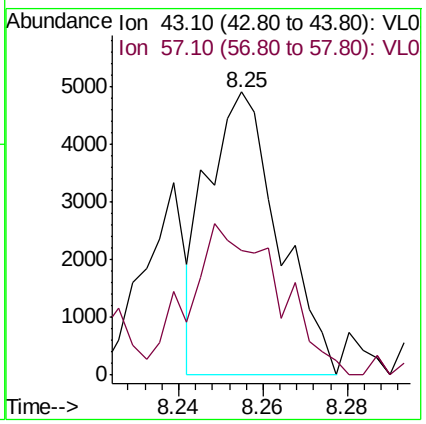


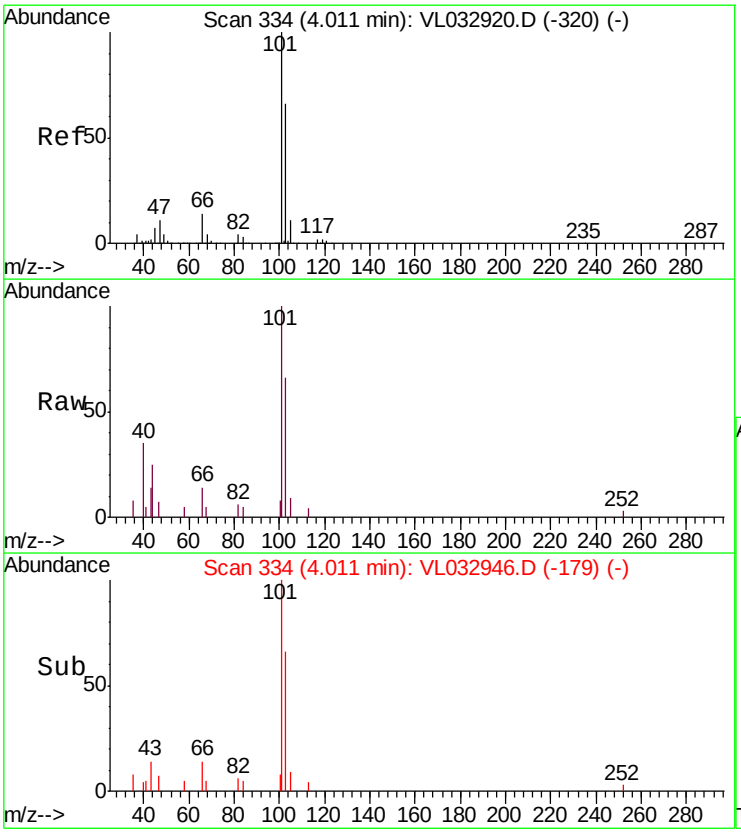
#10
Heptane
Concen: 0.041 ppbv
RT: 8.25 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 43 Resp: 5770

Ion	Ratio	Lower	Upper
43	100		
57	78.7	41.8	62.6#

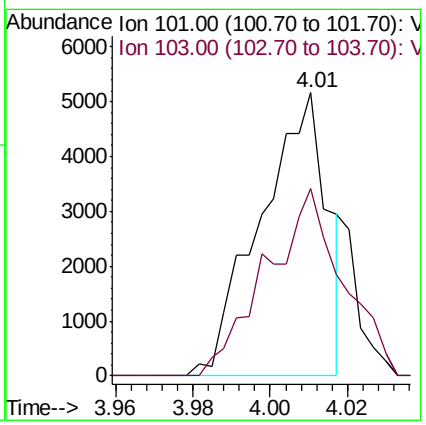


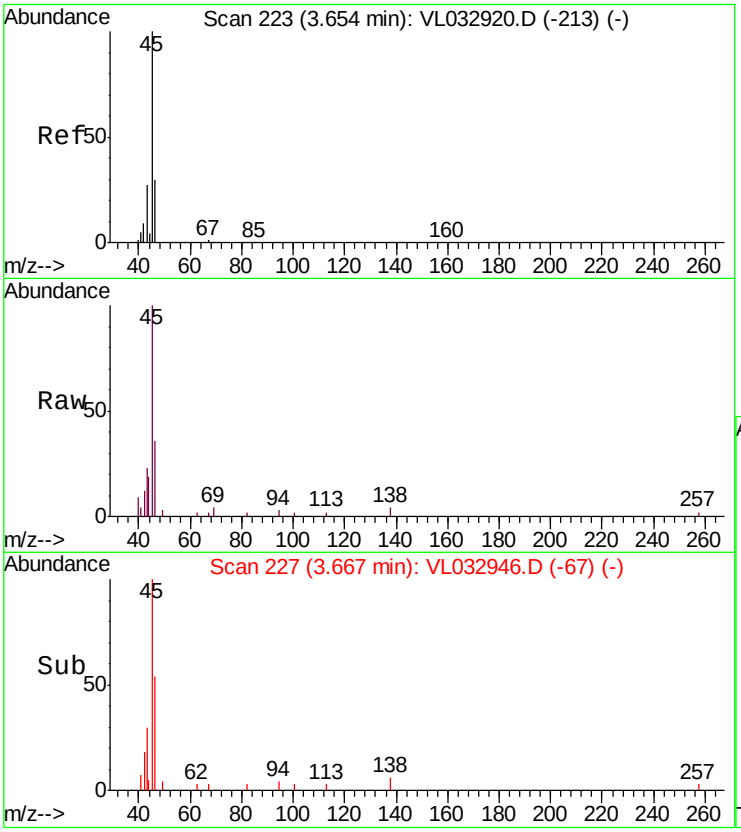


#11
Trichlorofluoromethane
Concen: 0.040 ppbv
RT: 4.01 min Scan# 334
Delta R.T. -0.00 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Tgt Ion:101 Resp: 6198

Ion	Ratio	Lower	Upper
101	100		
103	66.3	52.7	79.1



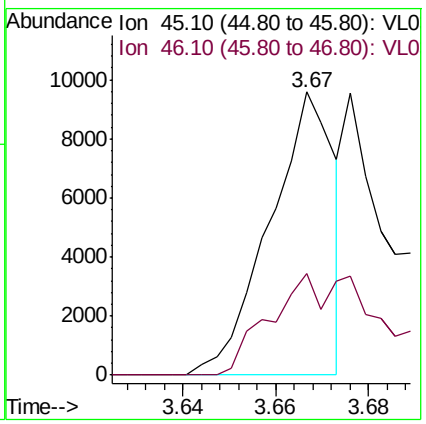


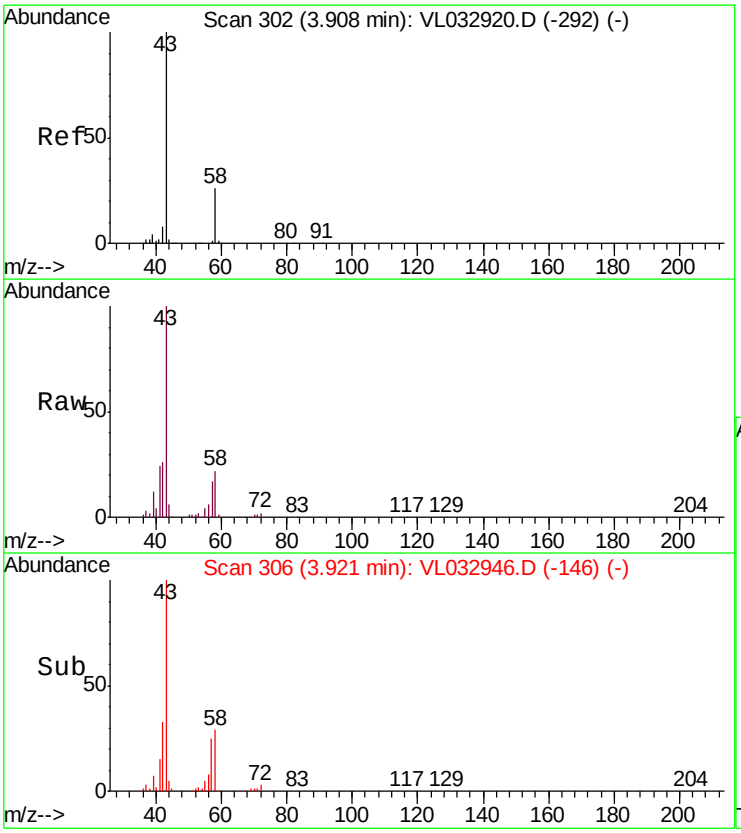
#13
Ethanol
Concen: 0.727 ppbv
RT: 3.67 min Scan# 227
Delta R.T. 0.01 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 45 Resp: 9271

Ion	Ratio	Lower	Upper
45	100		
46	69.6	13.8	55.4#

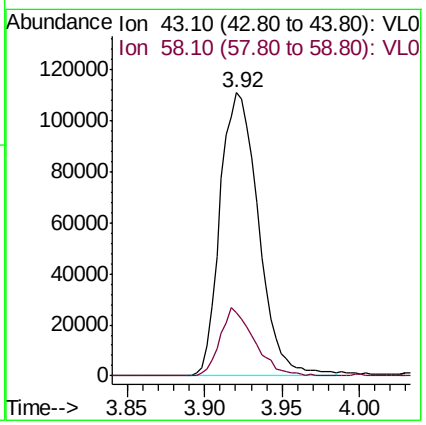


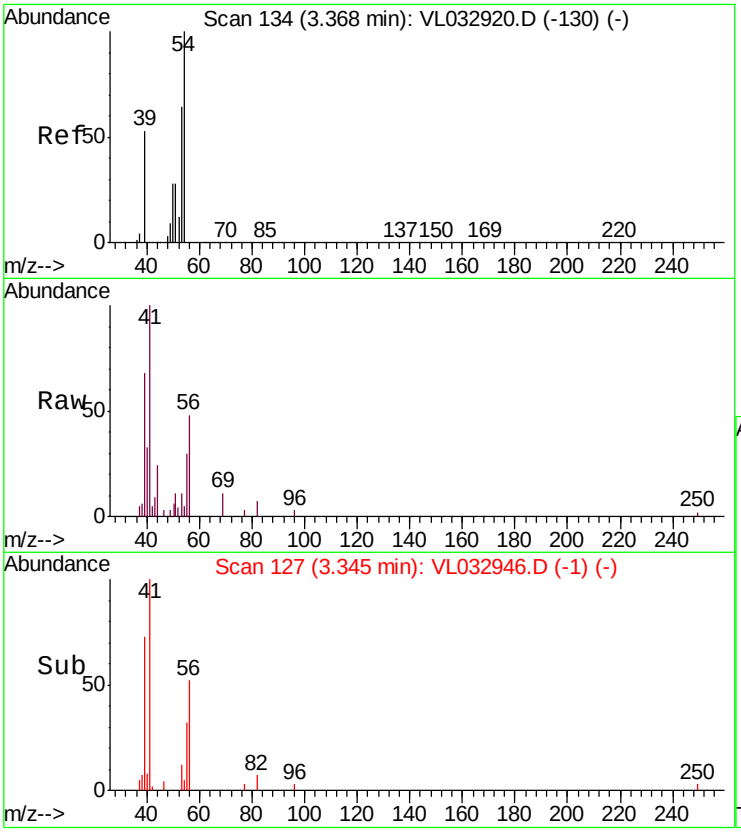


#15
Acetone
Concen: 1.804 ppbv
RT: 3.92 min Scan# 306
Delta R.T. 0.01 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Tgt Ion: 43 Resp: 191502

Ion	Ratio	Lower	Upper
43	100		
58	21.5	20.6	30.8



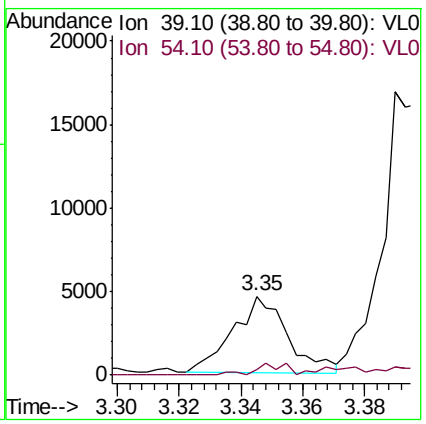


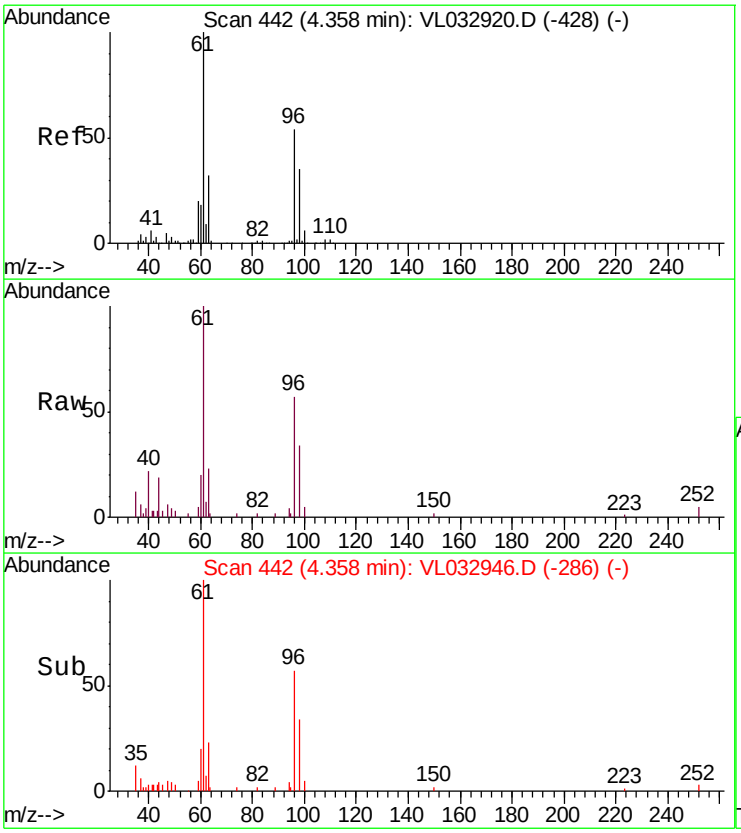
#16
1,3-Butadiene
Concen: 0.133 ppbv
RT: 3.35 min Scan# 127
Delta R.T. -0.02 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 39 Resp: 5594

Ion	Ratio	Lower	Upper
39	100		
54	25.7	72.7	109.1#

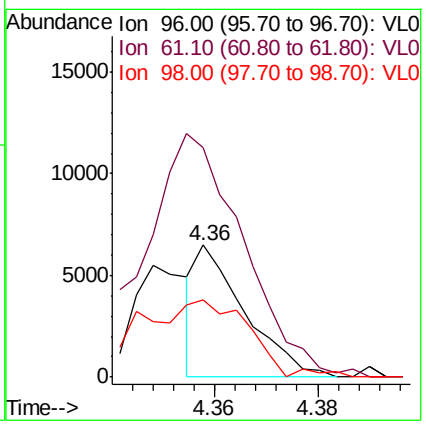


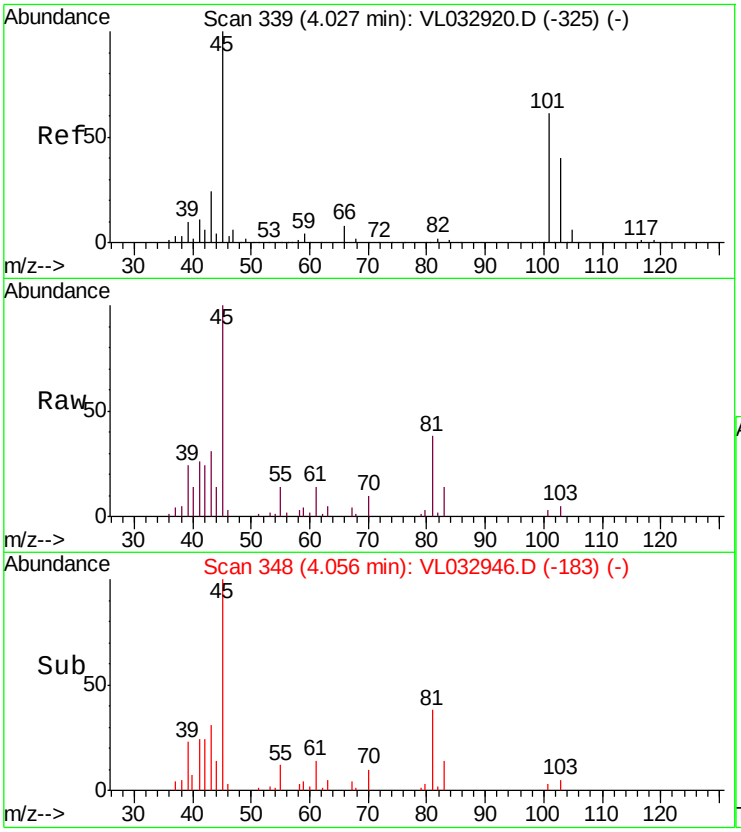


#18
1,1-Dichloroethene
Concen: 0.082 ppbv
RT: 4.36 min Scan# 442
Delta R.T. -0.00 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Tgt Ion: 96 Resp: 4258

Ion	Ratio	Lower	Upper
96	100		
61	170.5	147.0	220.4
98	54.9	50.7	76.1



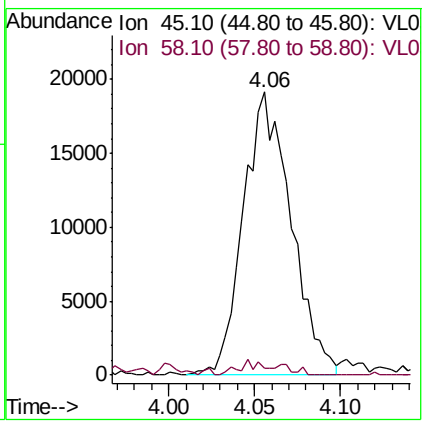


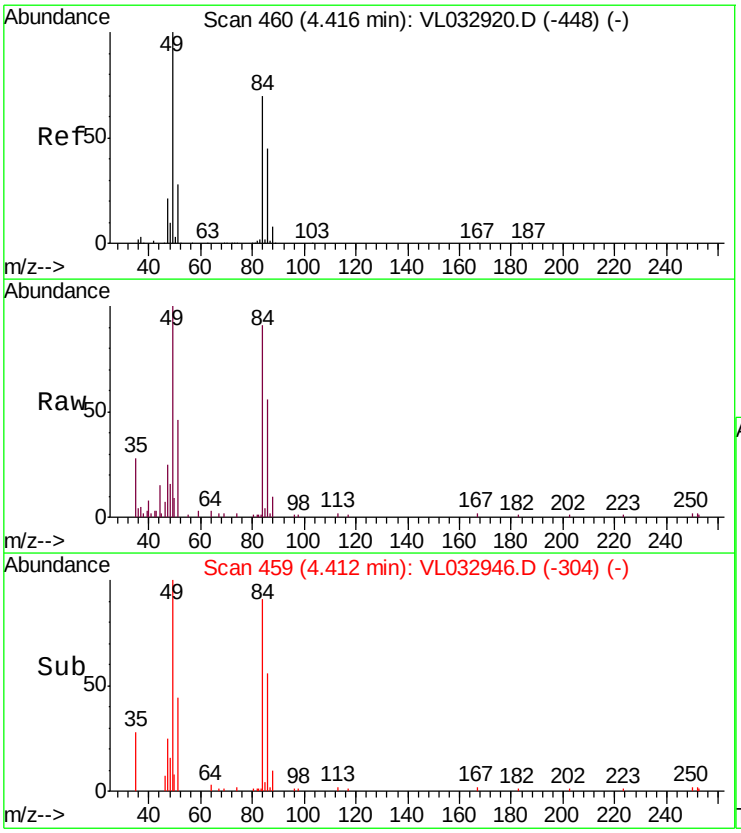
#19
Isopropyl Alcohol
Concen: 0.552 ppbv
RT: 4.06 min Scan# 348
Delta R.T. 0.03 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 45 Resp: 36775

Ion	Ratio	Lower	Upper
45	100		
58	4.4	1.4	2.2#

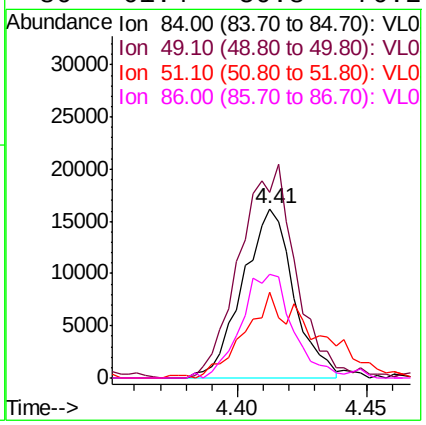


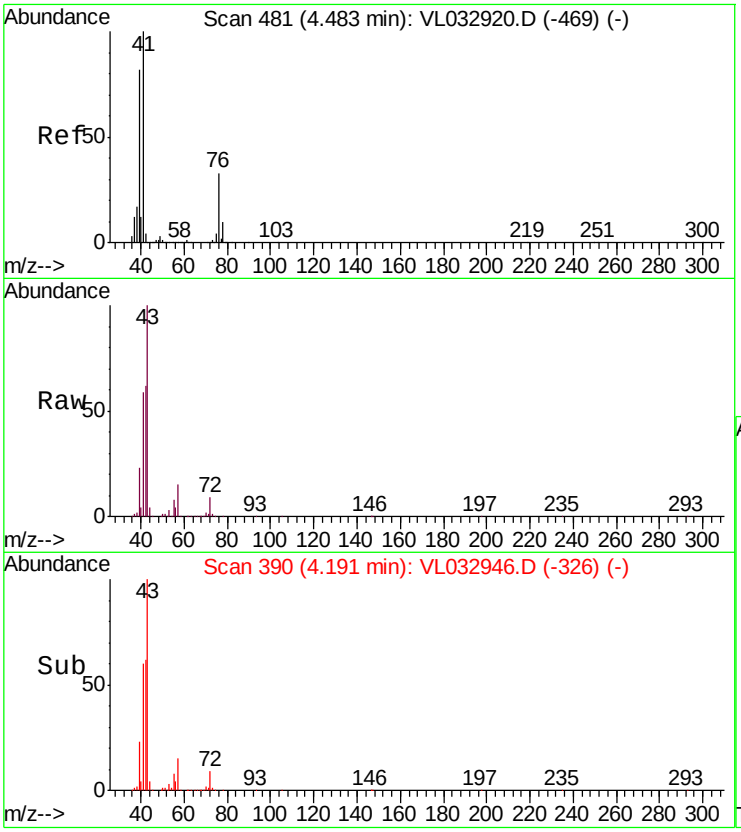


#20
Methylene Chloride
Concen: 0.432 ppbv
RT: 4.41 min Scan# 459
Delta R.T. -0.00 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Tgt Ion: 84 Resp: 22428

Ion	Ratio	Lower	Upper
84	100		
49	120.2	113.8	170.8
51	49.2	31.8	47.8#
86	61.4	50.8	76.2



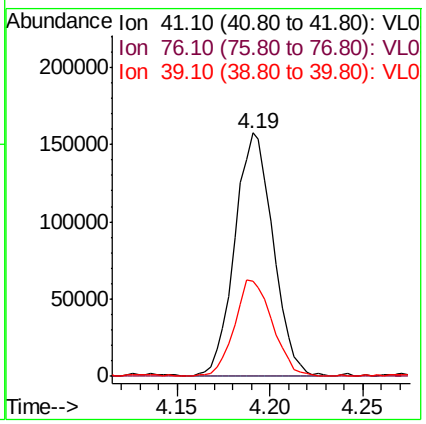


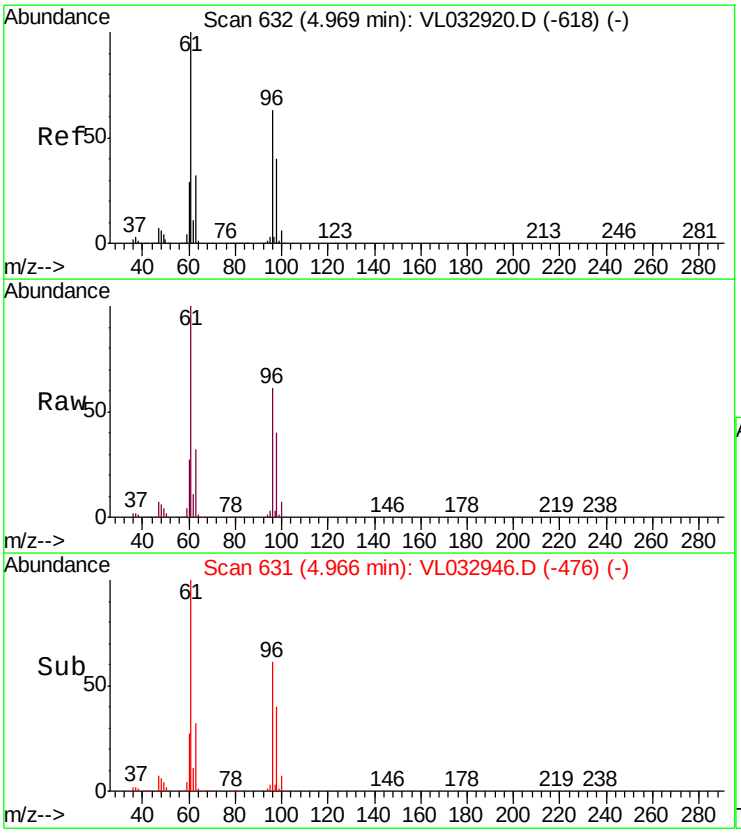
#21
Allyl Chloride
Concen: 2.618 ppbv
RT: 4.19 min Scan# 390
Delta R.T. -0.29 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Instrument : MSVOA_L
ClientSampleId : SV2

Tgt Ion: 41 Resp: 226469

Ion	Ratio	Lower	Upper
41	100		
76	0.0	25.2	37.8#
39	39.4	65.2	97.8#

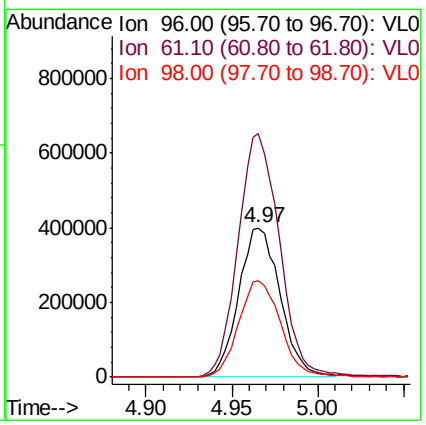


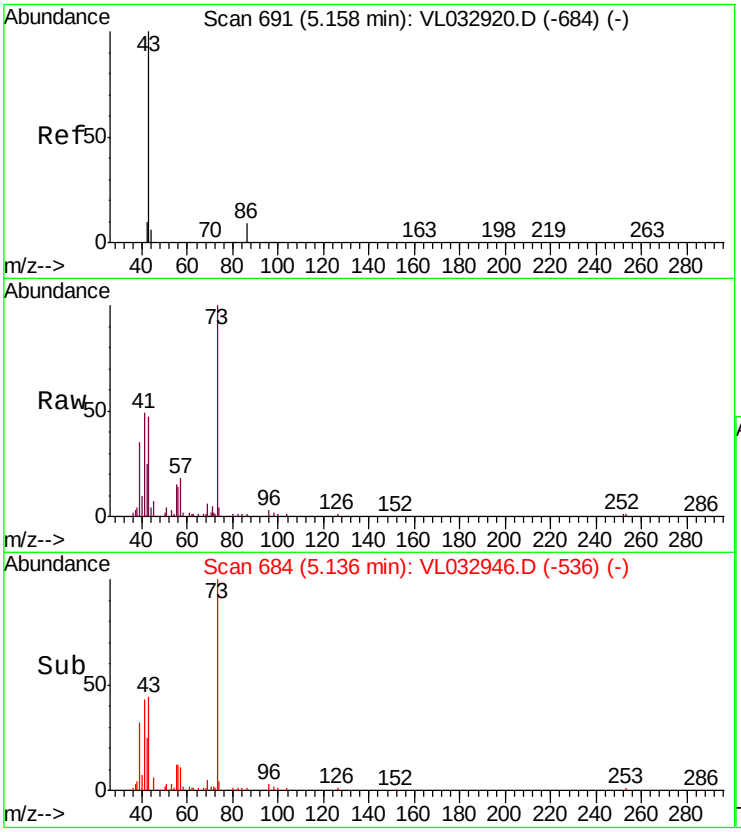


#22
trans-1,2-Dichloroethene
Concen: 10.371 ppbv
RT: 4.97 min Scan# 631
Delta R.T. -0.00 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Tgt Ion: 96 Resp: 668915

Ion	Ratio	Lower	Upper
96	100		
61	163.4	127.1	190.7
98	64.8	51.3	76.9



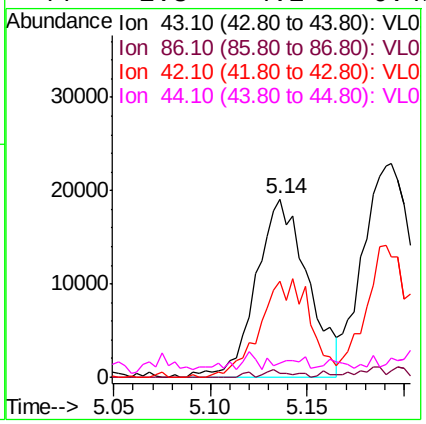


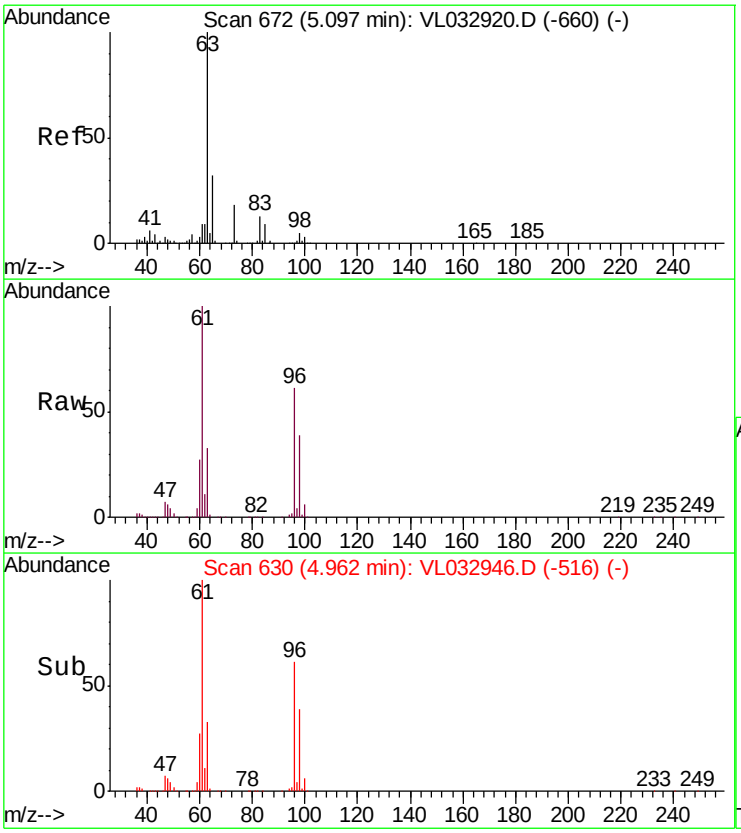
#23
Vinyl Acetate
Concen: 0.196 ppbv
RT: 5.14 min Scan# 684
Delta R.T. -0.02 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Instrument : MSVOA_L
ClientSampleId : SV2

Tgt Ion: 43 Resp: 35285

Ion	Ratio	Lower	Upper
43	100		
86	2.1	6.6	9.8#
42	57.2	8.3	12.5#
44	2.8	4.2	6.4#

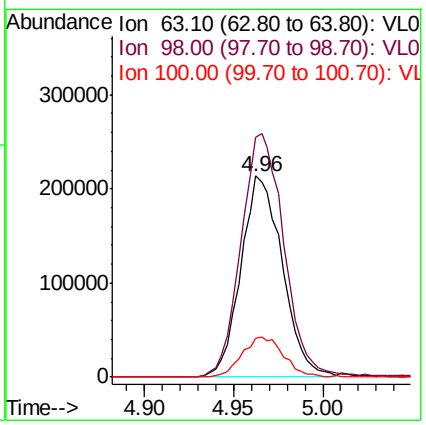


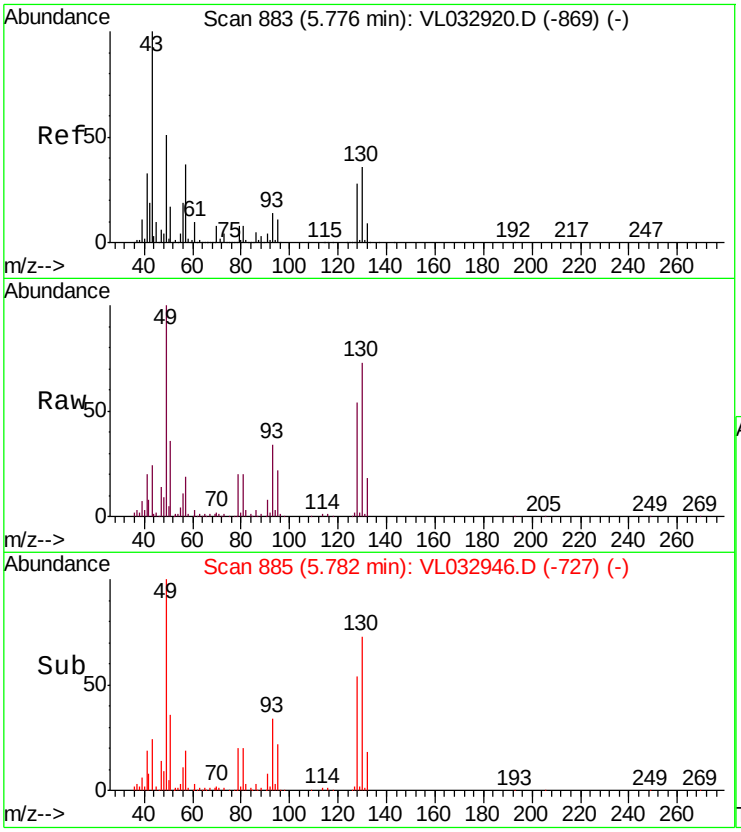


#24
1,1-Dichloroethane
Concen: 2.228 ppbv
RT: 4.96 min Scan# 630
Delta R.T. -0.14 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Tgt Ion: 63 Resp: 348158

Ion	Ratio	Lower	Upper
63	100		
98	119.2	2.5	7.5#
100	19.3	1.4	4.2#



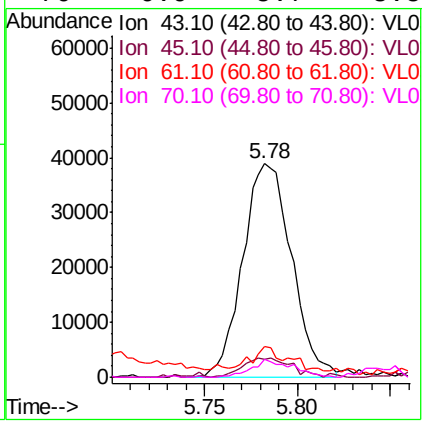


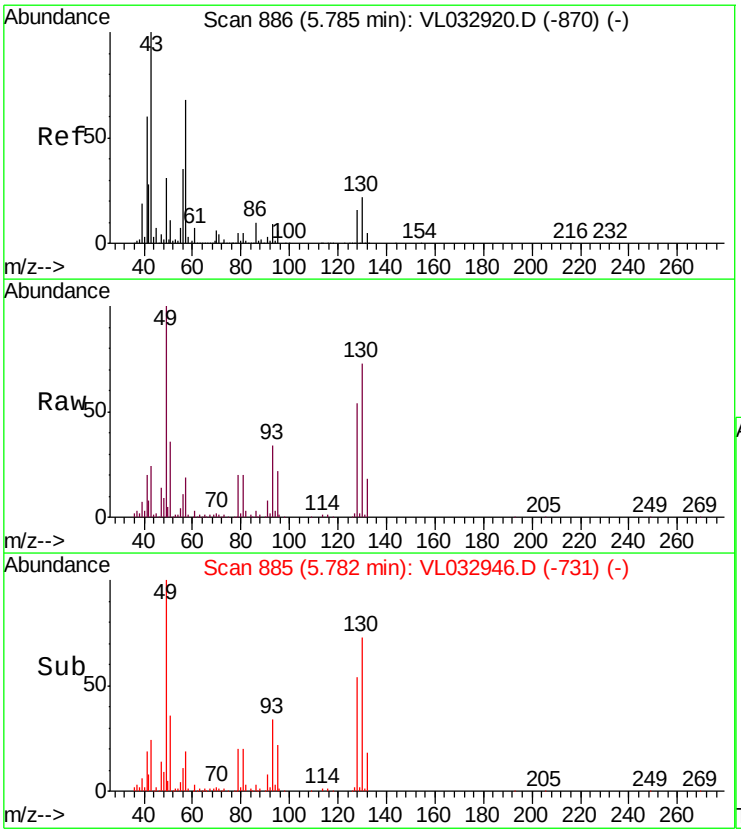
#25
Ethyl Acetate
Concen: 0.285 ppbv
RT: 5.78 min Scan# 885
Delta R.T. 0.01 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Instrument : MSVOA_L
ClientSampleId : SV2

Tgt Ion: 43 Resp: 71468

Ion	Ratio	Lower	Upper
43	100		
45	10.2	7.8	11.6
61	0.0	7.4	11.2#
70	6.9	5.7	8.5

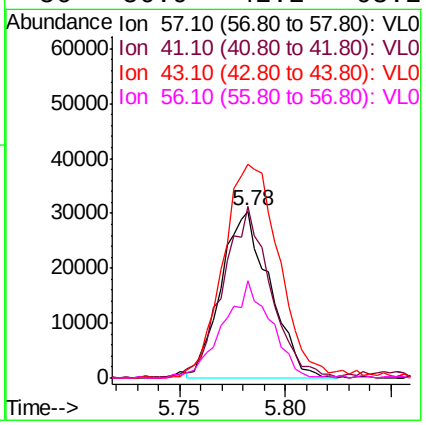


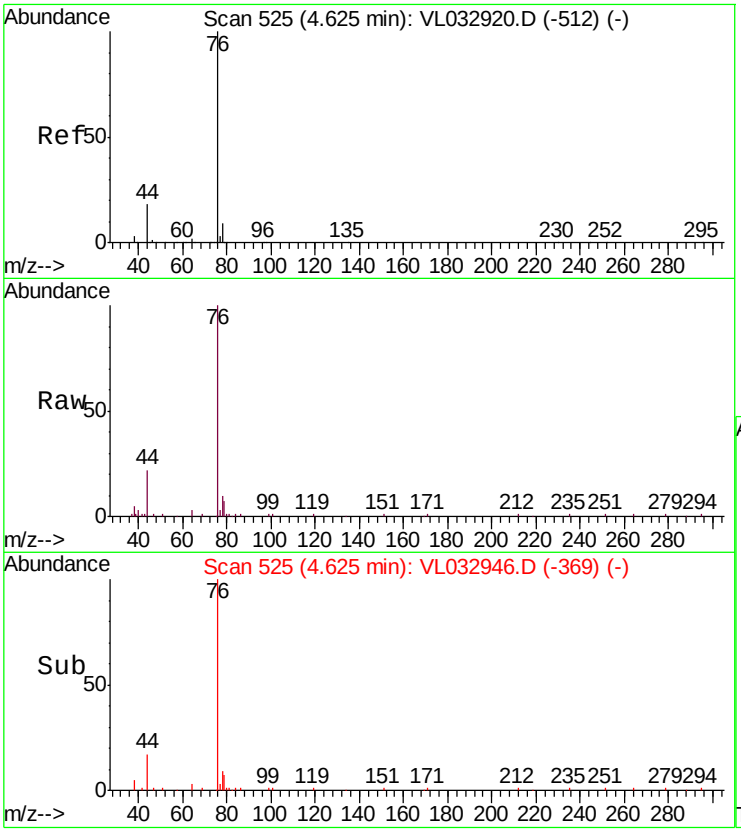


#26
Hexane
Concen: 0.421 ppbv
RT: 5.78 min Scan# 885
Delta R.T. -0.00 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Tgt Ion: 57 Resp: 48784

Ion	Ratio	Lower	Upper
57	100		
41	102.2	72.2	108.2
43	150.6	171.9	257.9#
56	56.9	42.2	63.2



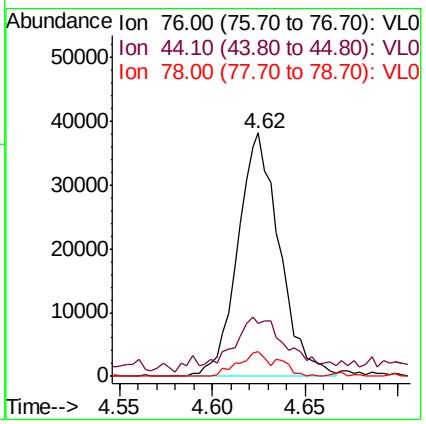


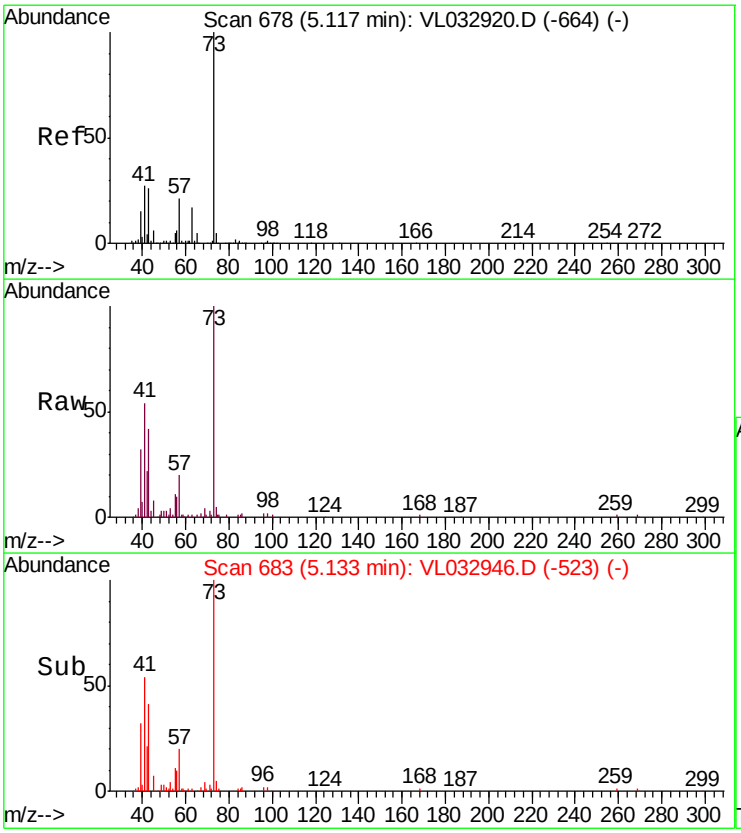
#27
Carbon Disulfide
Concen: 0.411 ppbv
RT: 4.62 min Scan# 525
Delta R.T. -0.00 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 76 Resp: 59532

Ion	Ratio	Lower	Upper
76	100		
44	30.6	14.7	22.1#
78	9.6	7.4	11.2

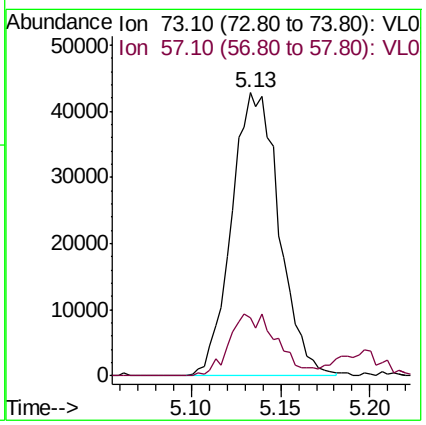


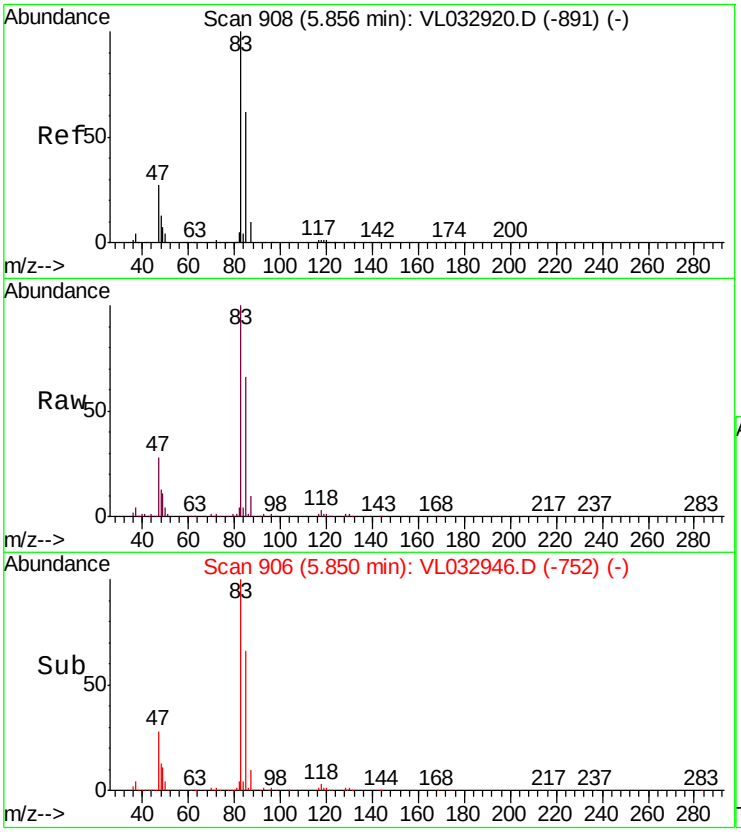


#28
Methyl tert-Butyl Ether
Concen: 0.458 ppbv
RT: 5.13 min Scan# 683
Delta R.T. 0.02 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Tgt Ion: 73 Resp: 79624

Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.4	26.0



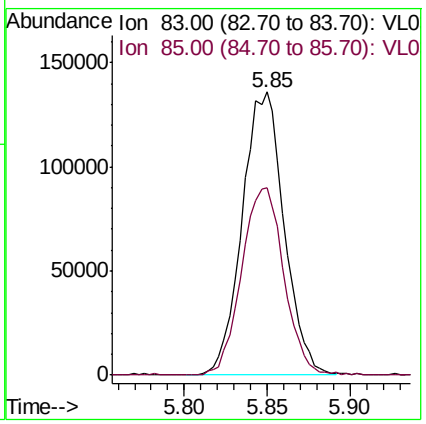


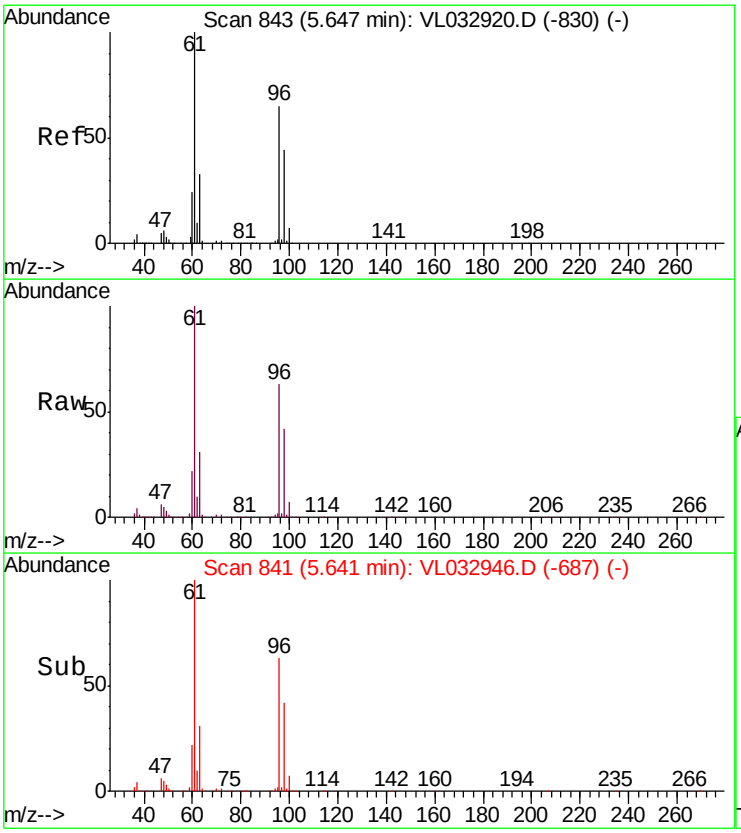
#29
Chloroform
Concen: 1.159 ppbv
RT: 5.85 min Scan# 906
Delta R.T. -0.01 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 83 Resp: 239317

Ion	Ratio	Lower	Upper
83	100		
85	66.3	49.8	74.8

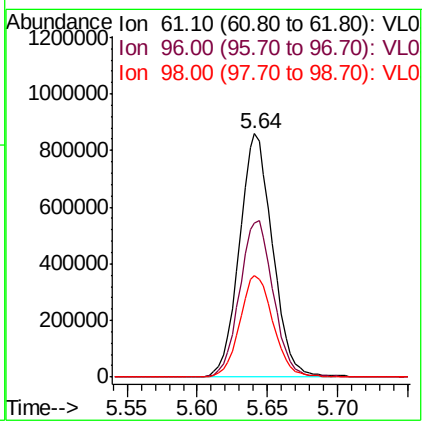


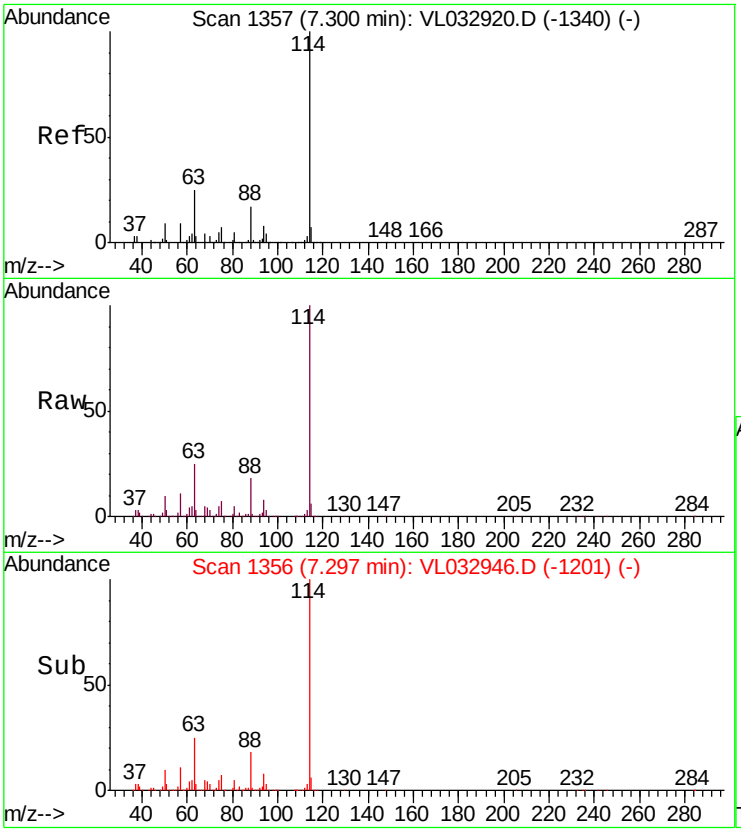


#31
cis-1,2-Dichloroethene
Concen: 13.269 ppbv
RT: 5.64 min Scan# 841
Delta R.T. -0.01 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Tgt Ion: 61 Resp: 1409548

Ion	Ratio	Lower	Upper
61	100		
96	63.3	51.9	77.9
98	41.8	35.0	52.4



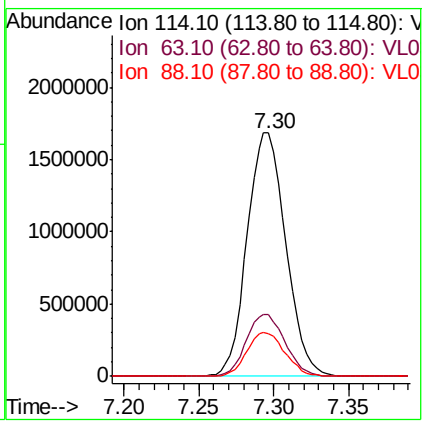


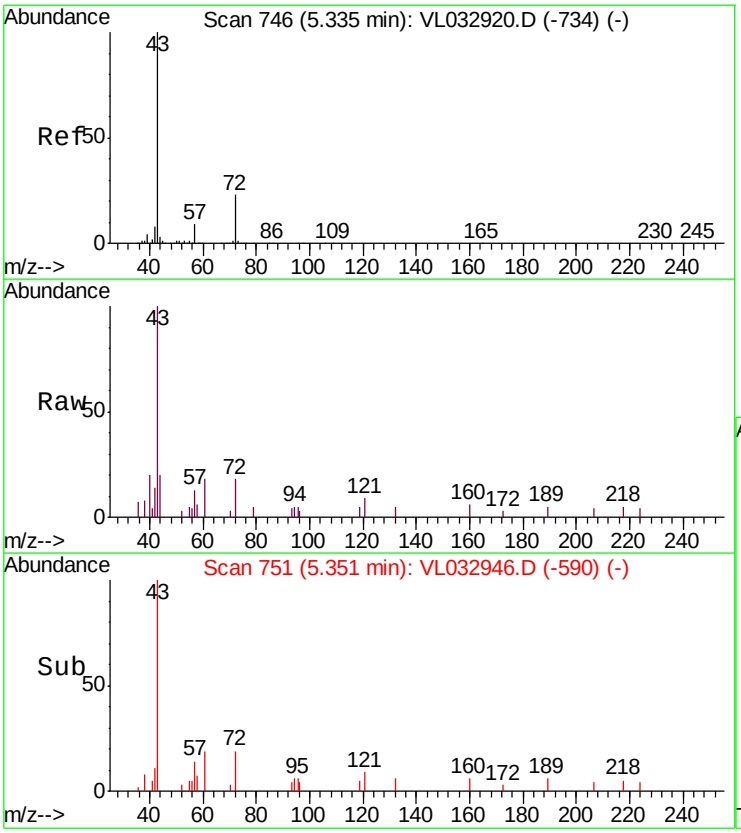
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1356
Delta R.T. -0.00 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion:114 Resp: 3032408

Ion	Ratio	Lower	Upper
114	100		
63	25.8	20.1	30.1
88	17.9	14.2	21.4

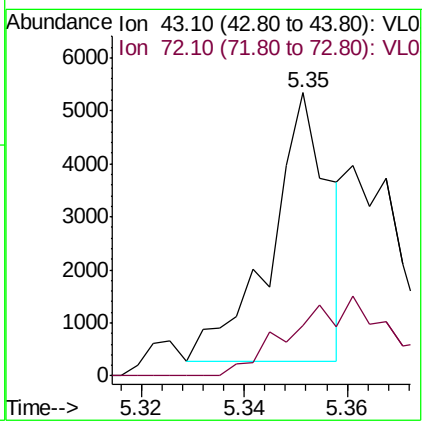


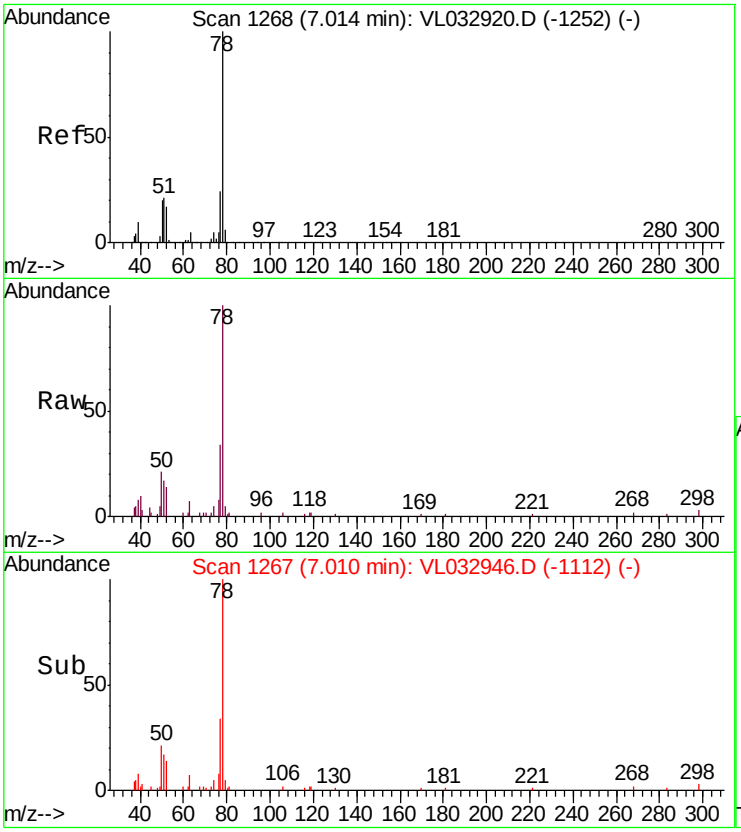


#34
2-Butanone
Concen: 0.030 ppbv
RT: 5.35 min Scan# 751
Delta R.T. 0.02 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Tgt Ion: 43 Resp: 4021

Ion	Ratio	Lower	Upper
43	100		
72	0.0	18.8	28.2#



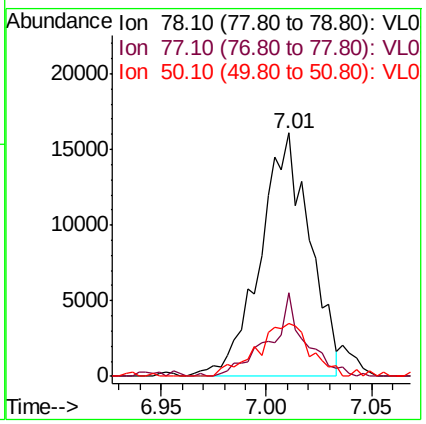


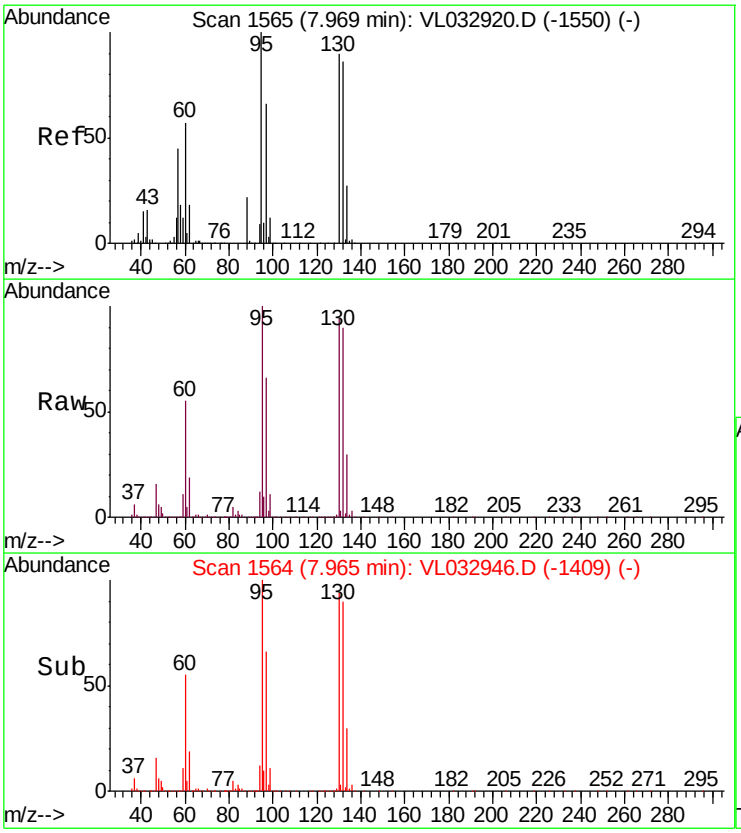
#36
Benzene
Concen: 0.118 ppbv
RT: 7.01 min Scan# 1267
Delta R.T. -0.00 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 78 Resp: 26353

Ion	Ratio	Lower	Upper
78	100		
77	35.1	18.9	28.3#
50	21.1	16.1	24.1

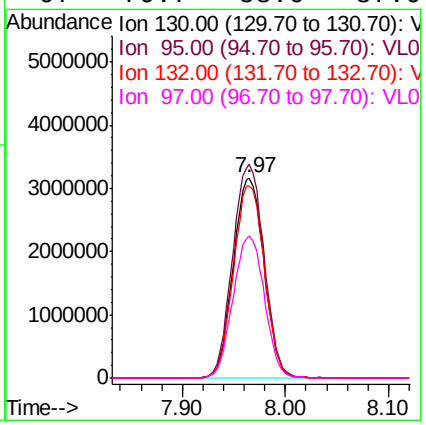


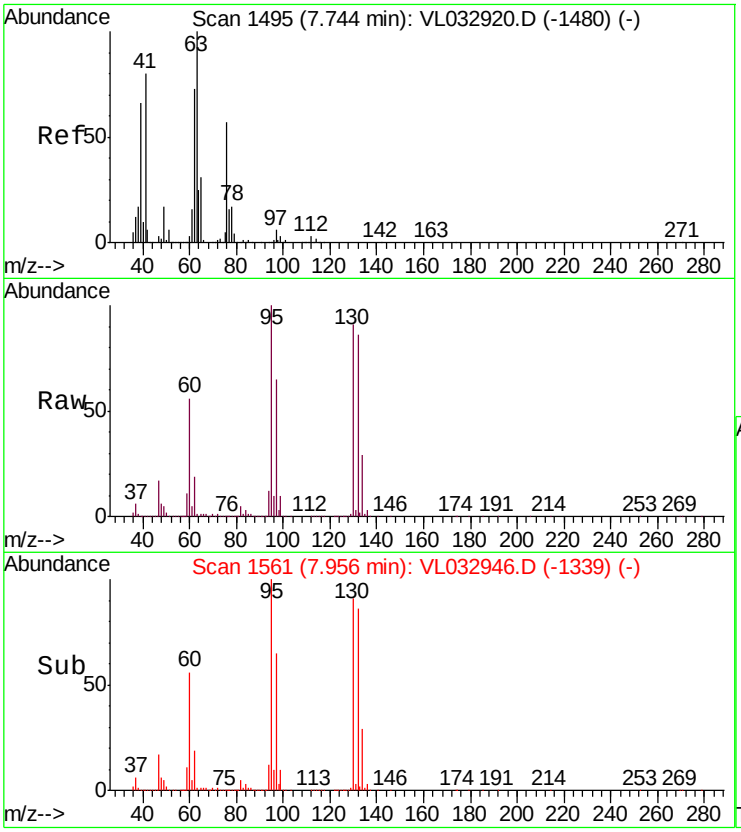


#38
Trichloroethene
Concen: 70.978 ppbv
RT: 7.97 min Scan# 1564
Delta R.T. -0.00 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Tgt Ion:130 Resp: 6588303

Ion	Ratio	Lower	Upper
130	100		
95	106.7	88.6	132.8
132	96.1	76.1	114.1
97	70.7	58.0	87.0



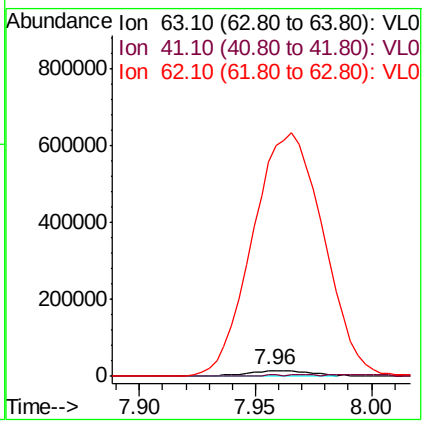


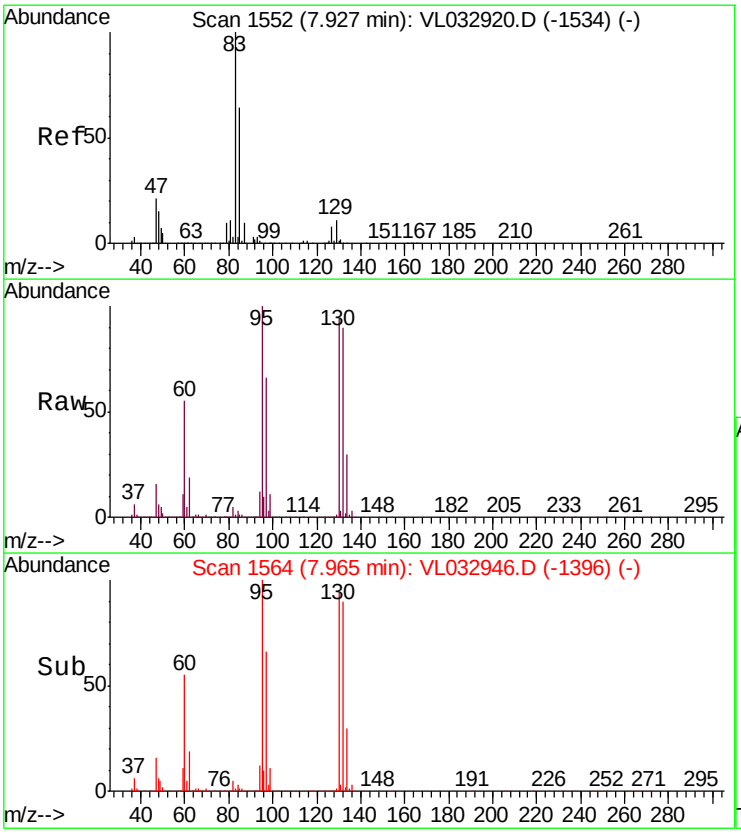
#39
1,2-Dichloropropane
Concen: 0.342 ppbv
RT: 7.96 min Scan# 1561
Delta R.T. 0.21 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Instrument : MSVOA_L
ClientSampleId : SV2

Tgt Ion: 63 Resp: 28925

Ion	Ratio	Lower	Upper
63	100		
41	15.9	63.9	95.9#
62	3627.6	58.8	88.2#

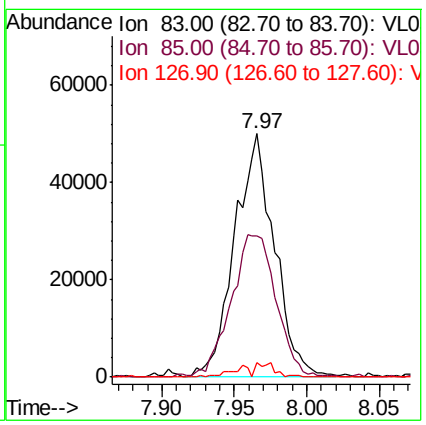


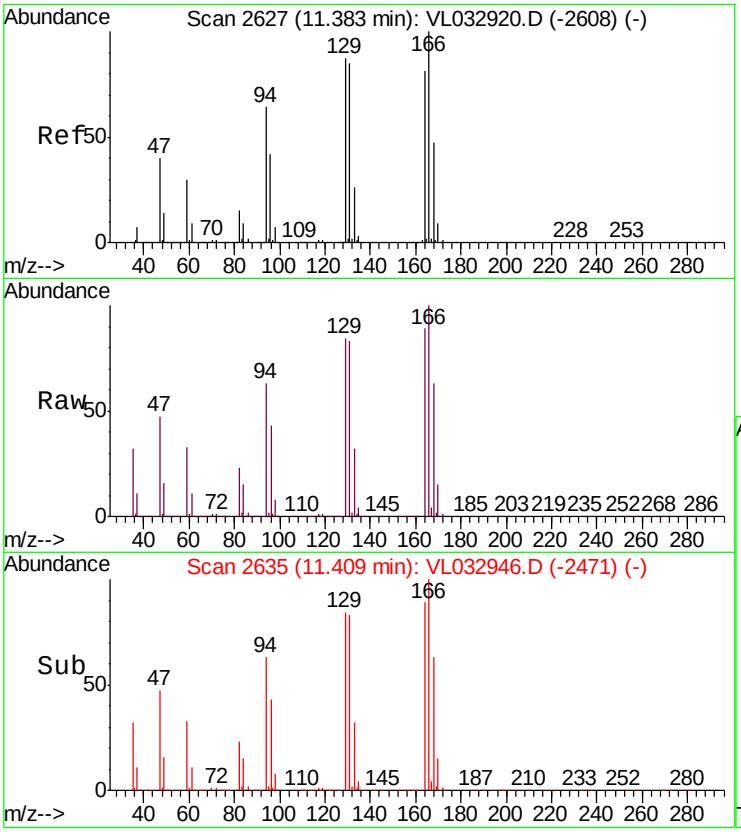


#42
Bromodichloromethane
Concen: 0.447 ppbv
RT: 7.97 min Scan# 1564
Delta R.T. 0.04 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Tgt Ion: 83 Resp: 94144

Ion	Ratio	Lower	Upper
83	100		
85	57.9	50.9	76.3
127	5.8	6.7	10.1#



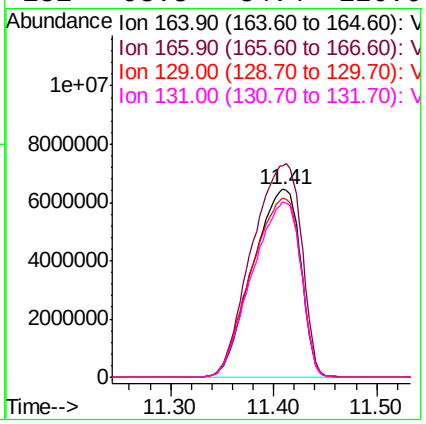


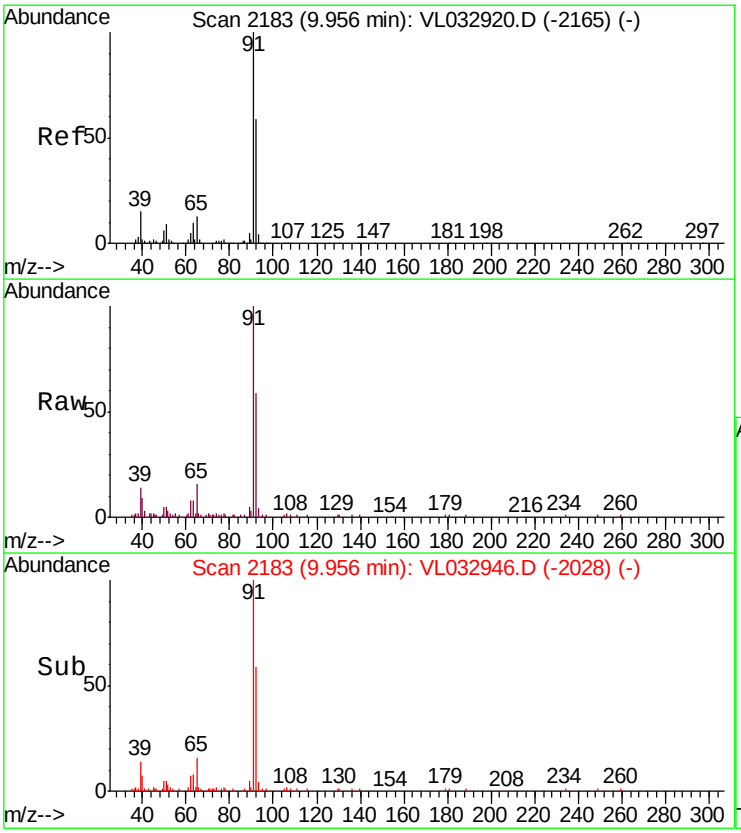
#52
Tetrachloroethene
Concen: 256.752 ppbv
RT: 11.41 min Scan# 2635
Delta R.T. 0.03 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion:164 Resp:20830626

Ion	Ratio	Lower	Upper
164	100		
166	112.5	98.8	148.2
129	95.0	85.5	128.3
131	93.3	84.4	126.6

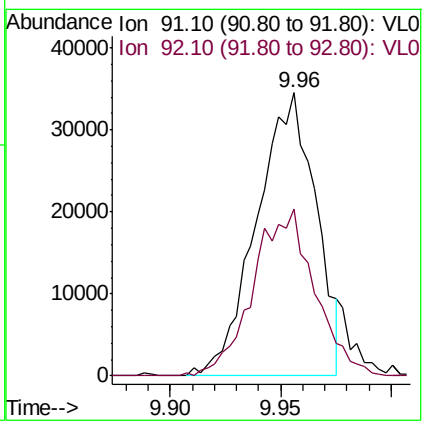


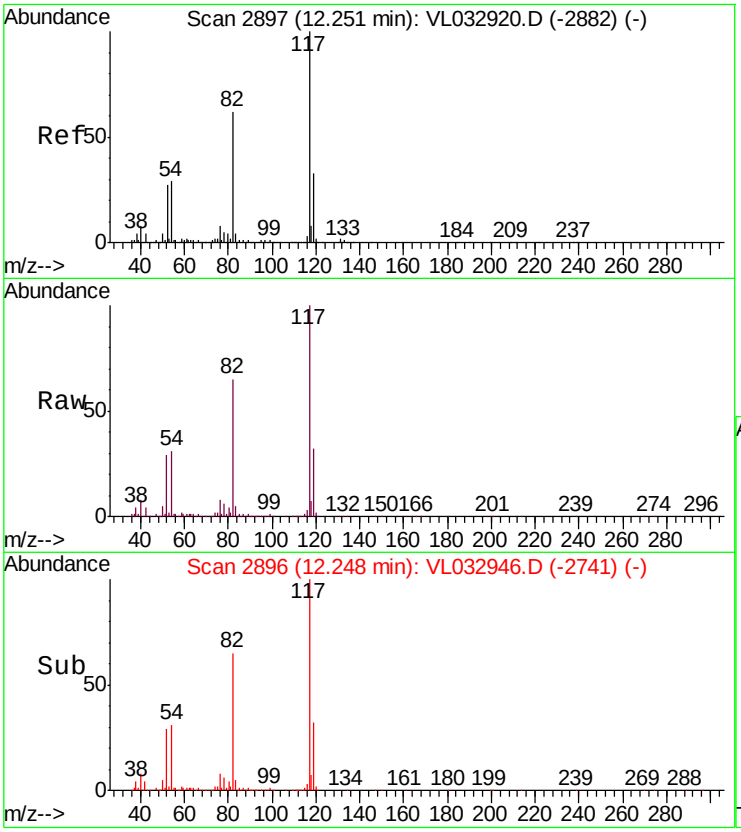


#53
Toluene
Concen: 0.271 ppbv
RT: 9.96 min Scan# 2183
Delta R.T. -0.00 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Tgt Ion: 91 Resp: 64132

Ion	Ratio	Lower	Upper
91	100		
92	61.0	47.4	71.0



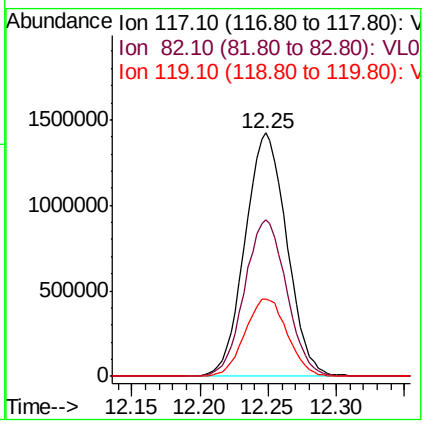


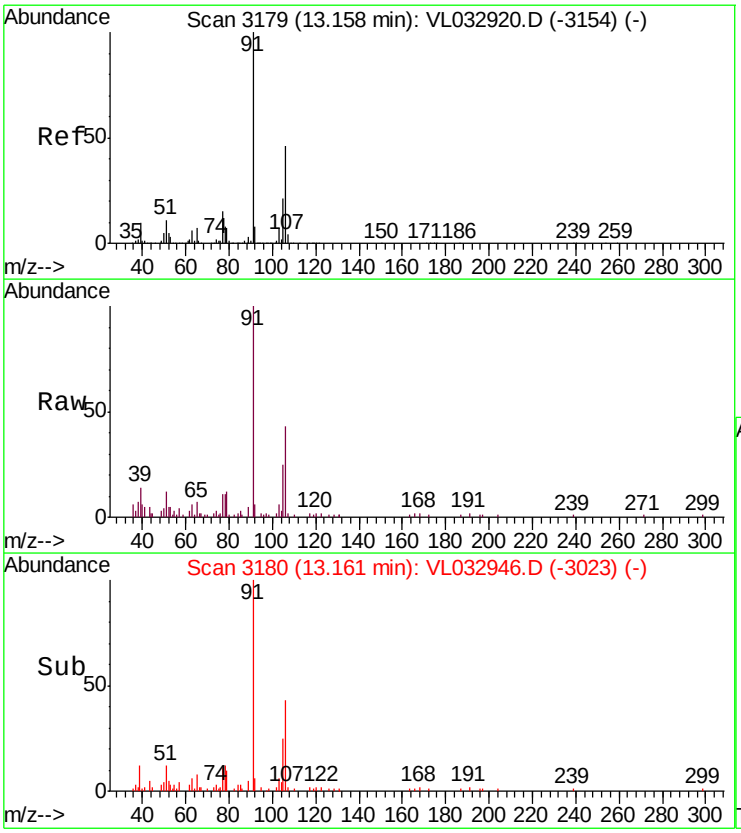
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2896
Delta R.T. -0.00 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Instrument : MSVOA_L
ClientSampleId : SV2

Tgt Ion:117 Resp: 3025513

Ion	Ratio	Lower	Upper
117	100		
82	65.1	47.8	71.8
119	32.4	43.1	64.7#

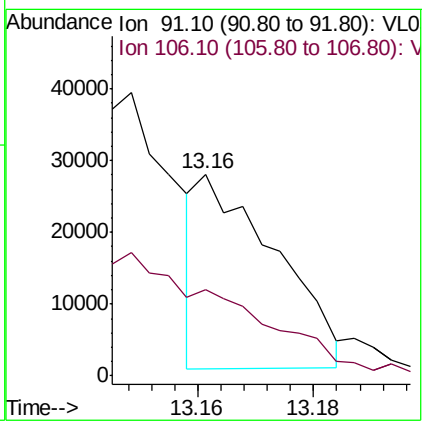


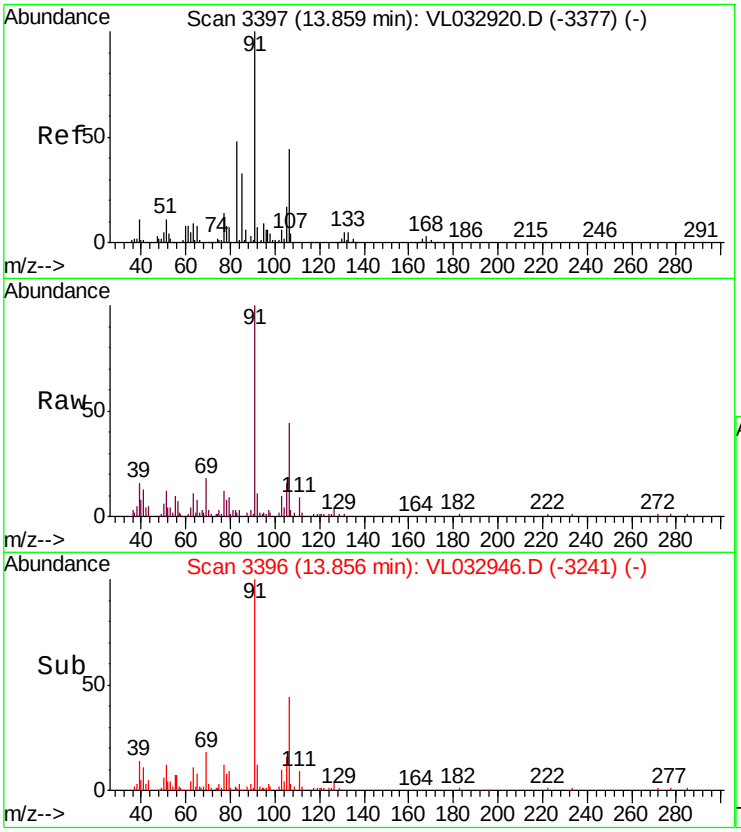


#59
m/p-Xylene
Concen: 0.086 ppbv
RT: 13.16 min Scan# 3180
Delta R.T. 0.00 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Tgt Ion: 91 Resp: 25098

Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0



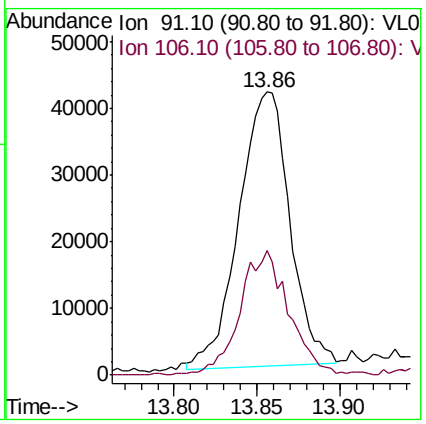


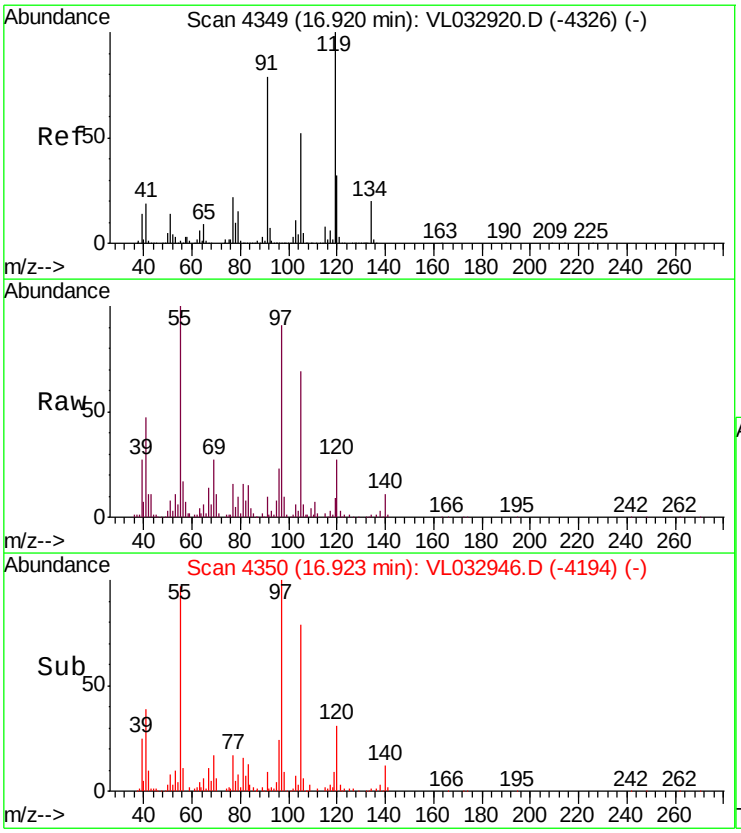
#60
o-Xylene
Concen: 0.298 ppbv
RT: 13.86 min Scan# 3396
Delta R.T. -0.00 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Instrument : MSVOA_L
ClientSampleId : SV2

Tgt Ion: 91 Resp: 88124

Ion	Ratio	Lower	Upper
91	100		
106	43.9	21.9	65.8

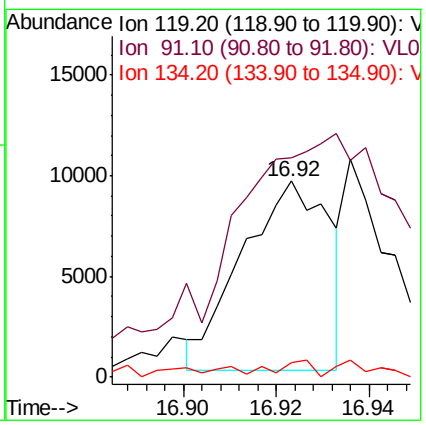


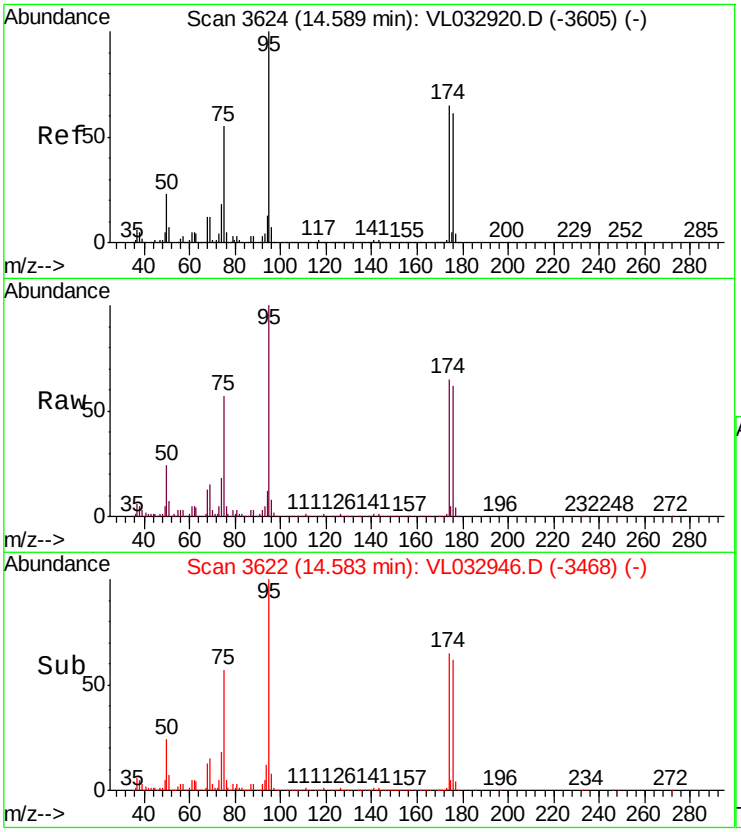


#65
tert-Butylbenzene
Concen: 0.032 ppbv
RT: 16.92 min Scan# 4350
Delta R.T. 0.00 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Tgt Ion:119 Resp: 12290

Ion	Ratio	Lower	Upper
119	100		
91	0.0	64.5	96.7#
134	0.0	15.7	23.5#



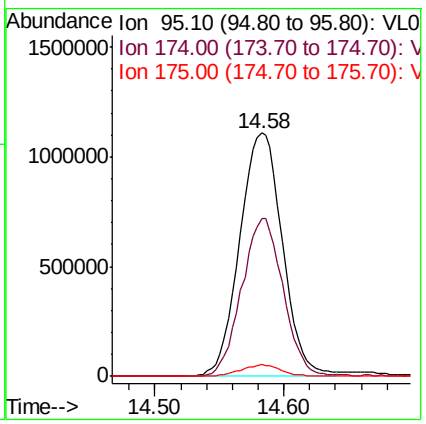


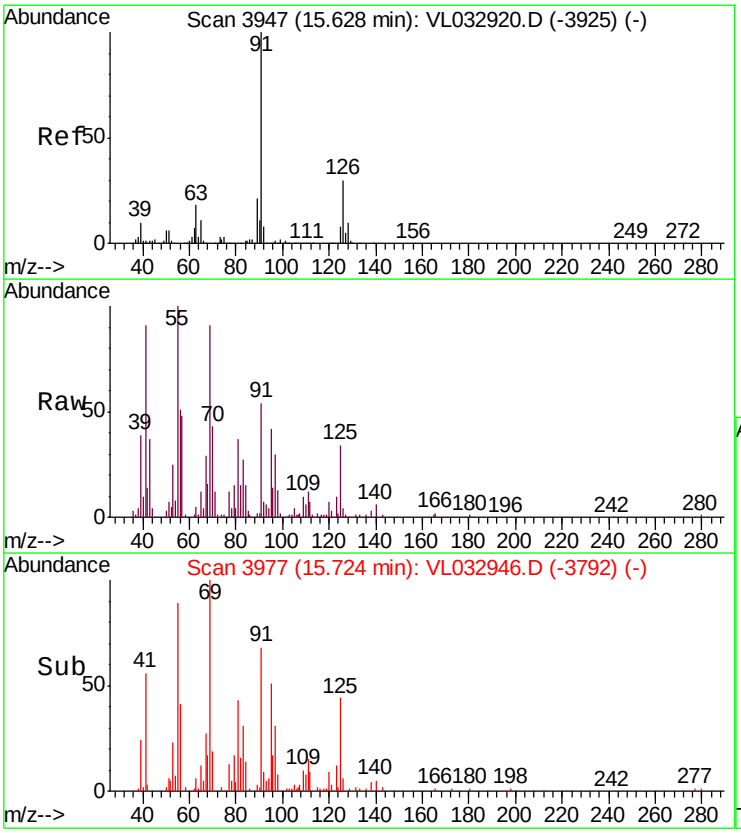
#68
1-Bromo-4-Fluorobenzene
Concen: 11.420 ppbv
RT: 14.58 min Scan# 3622
Delta R.T. -0.01 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 95 Resp: 2552605

Ion	Ratio	Lower	Upper
95	100		
174	63.7	51.4	77.0
175	4.5	3.8	5.6

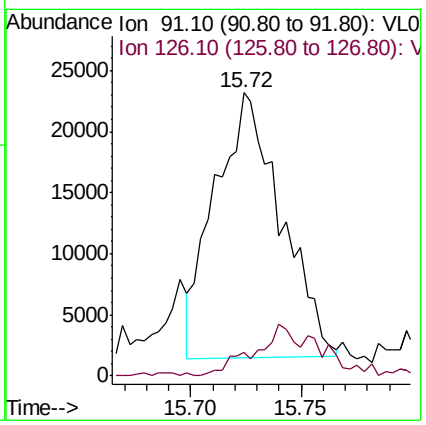


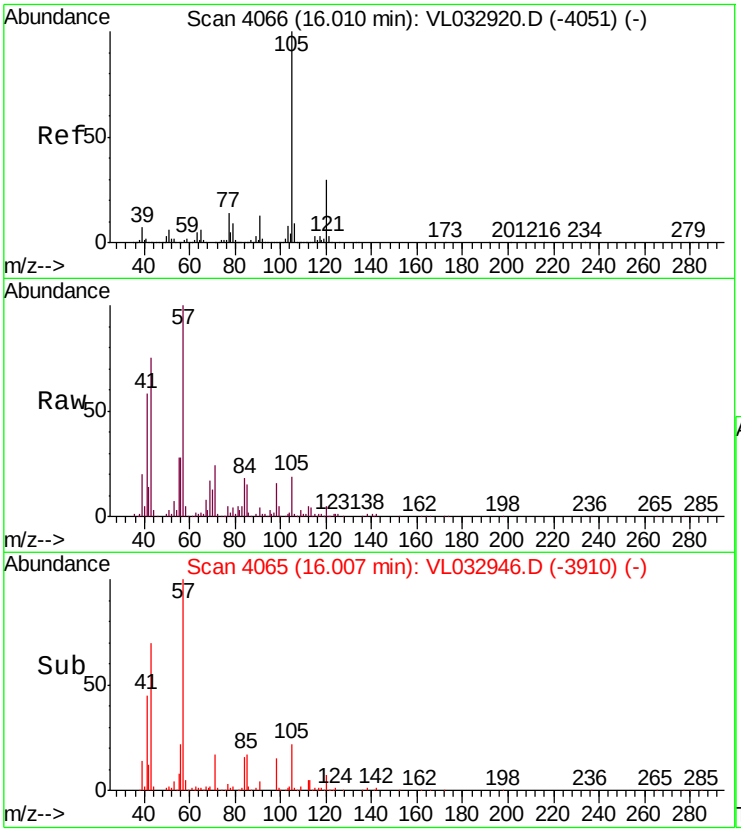


#71
2-Chlorotoluene
Concen: 0.147 ppbv
RT: 15.72 min Scan# 3977
Delta R.T. 0.10 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Tgt Ion: 91 Resp: 45128

Ion	Ratio	Lower	Upper
91	100		
126	19.6	12.3	49.3



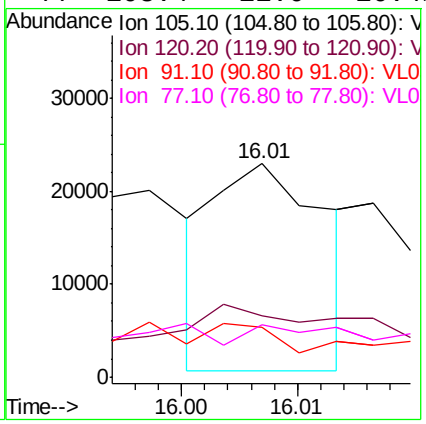


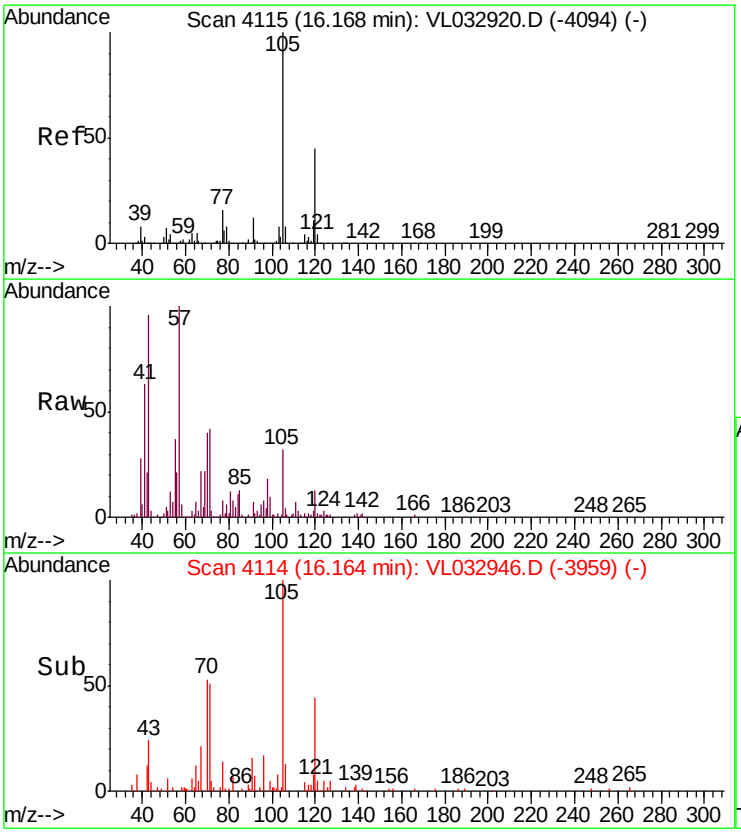
#72
4-Ethyltoluene
Concen: 0.045 ppbv
RT: 16.01 min Scan# 4065
Delta R.T. -0.00 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion:105 Resp: 14801

Ion	Ratio	Lower	Upper
105	100		
120	96.1	23.0	34.4#
91	0.0	10.4	15.6#
77	108.4	11.0	16.4#

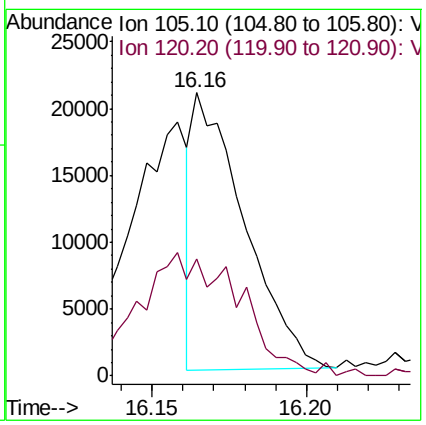


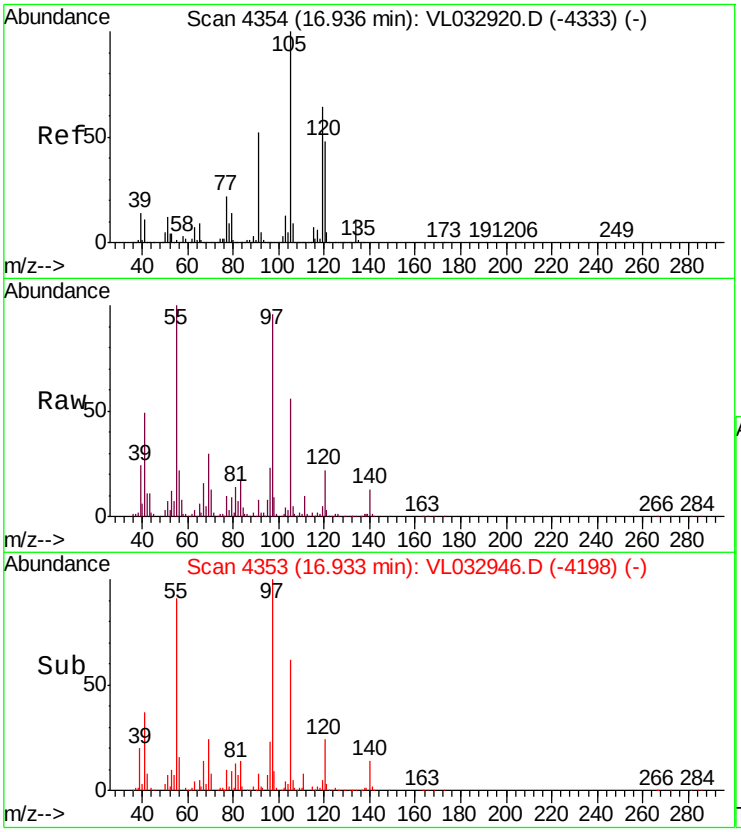


#73
1,3,5-Trimethylbenzene
Concen: 0.075 ppbv
RT: 16.16 min Scan# 4114
Delta R.T. -0.00 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Tgt Ion:105 Resp: 24030

Ion	Ratio	Lower	Upper
105	100		
120	42.4	36.0	54.0





#74
1,2,4-Trimethylbenzene
Concen: 0.230 ppbv
RT: 16.93 min Scan# 4353
Delta R.T. -0.00 min
Lab File: VL032946.D
Acq: 7 Dec 2018 22:27

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion:105 Resp: 83487

Ion	Ratio	Lower	Upper
105	100		
120	38.0	38.6	58.0#
91	11.1	41.7	62.5#
77	14.1	17.4	26.2#