

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052319\
 Data File : VL033774.D
 Acq On : 23 May 2019 15:27
 Operator : SY/AP
 Sample : K2929-07DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3002-55DUP

Manual Integrations
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 5/28/2019 2:53:24 AM

Quant Time: May 24 04:55:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 18 2019
 QLast Update : Fri May 17 08:15:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	855302	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2005831	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2016155	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.57	95	1681827	10.29	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	41661	0.231	ppbv	94
3) Chlorodifluoromethane	3.02	51	15399m	0.157	ppbv	
4) Chloromethane	3.17	50	35760	0.638	ppbv	98
9) Propene	3.03	41	148169	3.556	ppbv	91
10) Heptane	8.24	43	130931	1.110	ppbv	97
11) Trichlorofluoromethane	4.00	101	42276	0.246	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	19875m	0.165	ppbv	
13) Ethanol	3.66	45	259481	19.265	ppbv	100
15) Acetone	3.89	43	15354282	129.388	ppbv #	81
17) tert-Butyl alcohol	4.38	59	43349	0.452	ppbv #	1
19) Isopropyl Alcohol	4.04	45	120012	1.568	ppbv #	94
20) Methylene Chloride	4.41	84	80861	1.770	ppbv	92
26) Hexane	5.78	57	392419	4.379	ppbv #	43
30) Cyclohexane	7.25	84	33367m	0.443	ppbv	
34) 2-Butanone	5.33	43	67910	0.546	ppbv	98
35) Carbon Tetrachloride	7.14	117	9809m	0.061	ppbv	
36) Benzene	7.00	78	192520	1.055	ppbv	97
38) Trichloroethene	7.96	130	2826m	0.042	ppbv	
44) 2,2,4-Trimethylpentane	7.98	57	229508m	0.744	ppbv	
53) Toluene	9.94	91	1197793	6.086	ppbv	99
58) Ethyl Benzene	12.85	91	82852	0.310	ppbv	96
59) m/p-Xylene	13.11	91	275497m	1.180	ppbv	
60) o-Xylene	13.84	91	80892	0.344	ppbv	99
74) 1,2,4-Trimethylbenzene	16.92	105	51960m	0.182	ppbv	

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

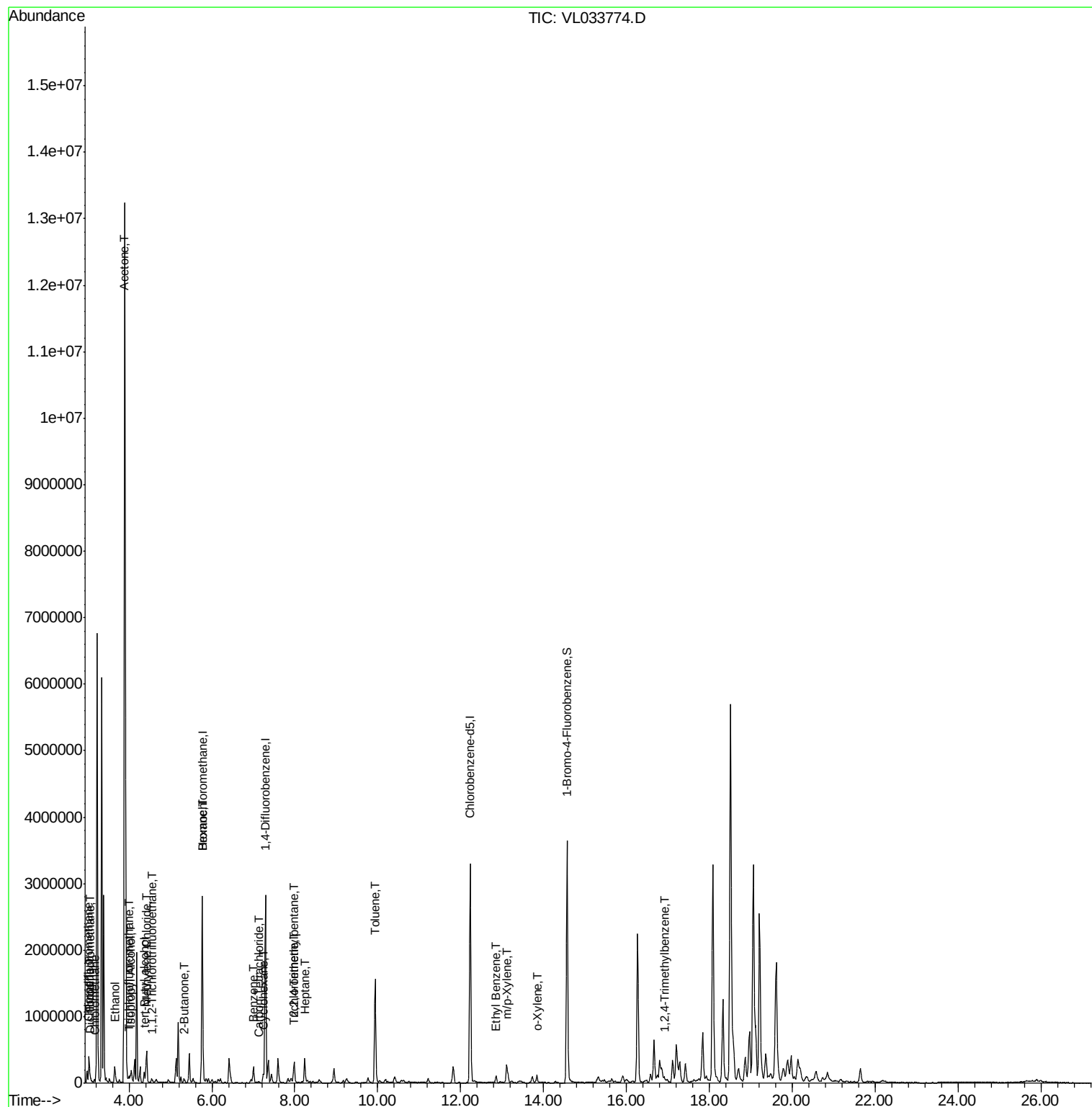
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL052319\
Data File : VL033774.D
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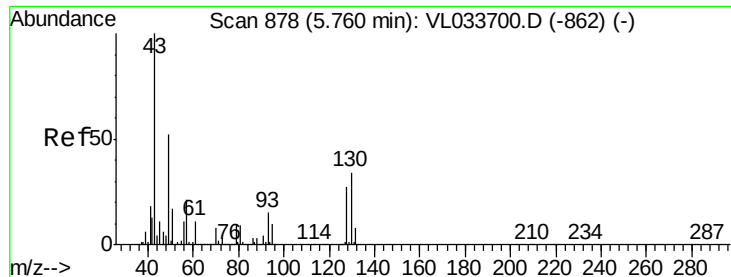
Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3002-55DUP

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May
QLast Update : Fri May 17 08:15:41 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. 0.00 min

Lab File: VL033774.D

Acq: 23 May 2019 15:27

Instrument :

MSVOA_L

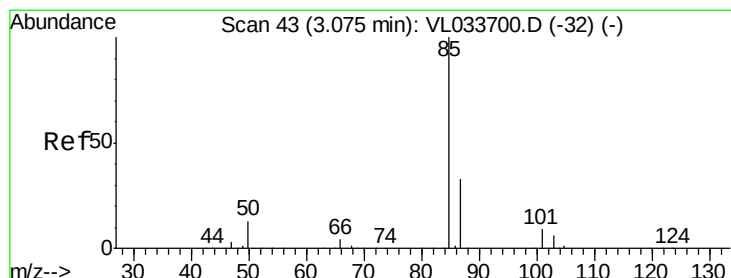
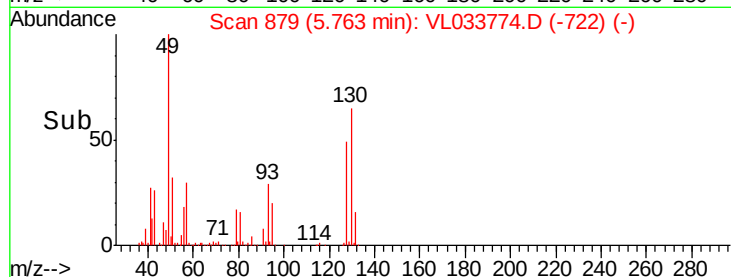
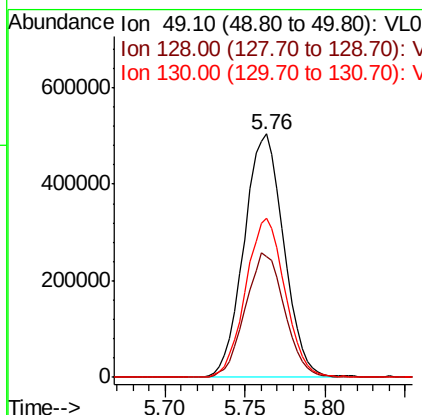
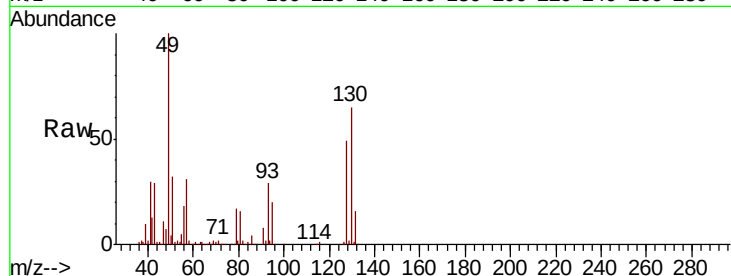
ClientSampleId :

BPS1-SG-3002-55DUP

Tot Ion:	49	Resp:	855302
Ion	Ratio	Lower	Upper
49	100		
128	50.7	25.2	75.6
130	64.9	32.5	97.5

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#2

Dichlorodifluoromethane

Concen: 0.231 ppbv

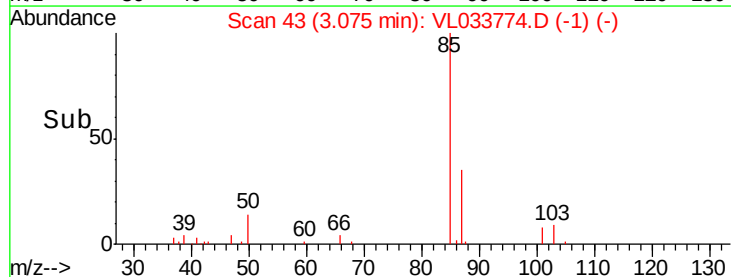
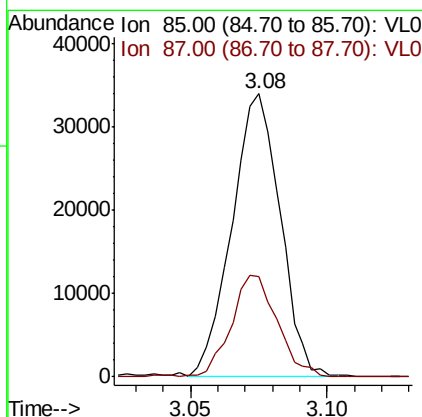
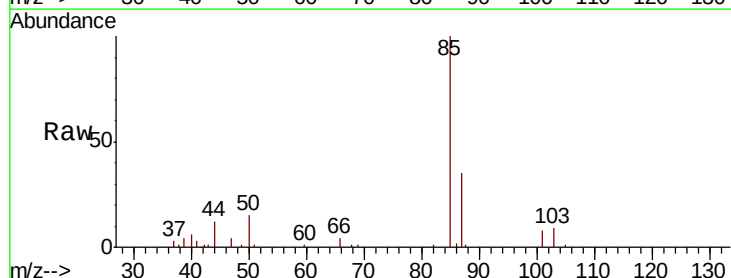
RT: 3.08 min Scan# 43

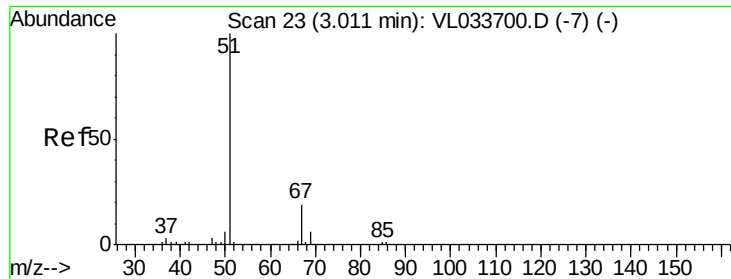
Delta R.T. 0.00 min

Lab File: VL033774.D

Acq: 23 May 2019 15:27

Tgt Ion:	85	Resp:	41661
Ion	Ratio	Lower	Upper
85	100		
87	36.3	26.3	39.5





#3

Chlorodifluoromethane

Concen: 0.157 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.01 min

Lab File: VL033774.D

Acq: 23 May 2019 15:27

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3002-55DUP

Tot Ion: 51 Resp: 15399

Ion Ratio Lower Upper

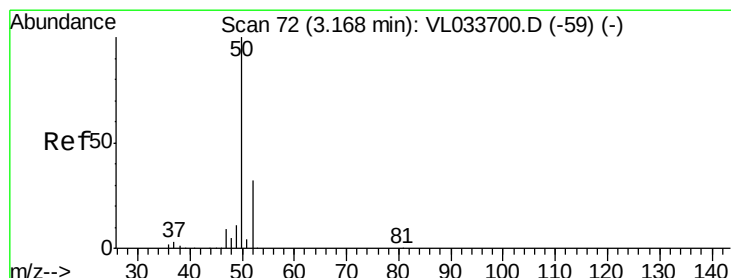
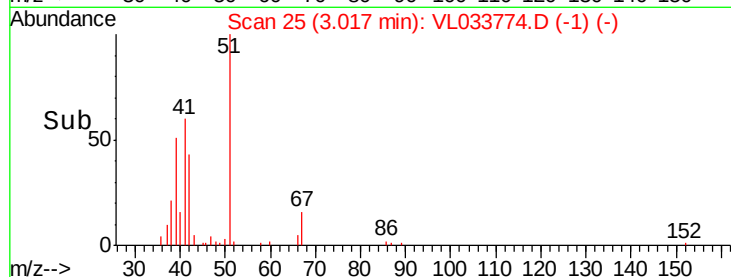
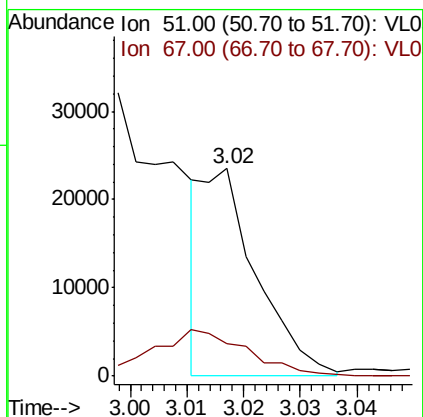
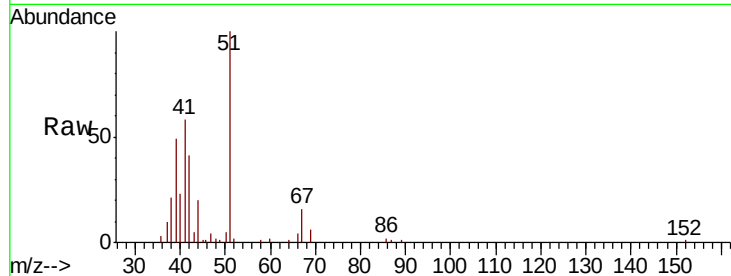
51 100

67 41.1 15.6 23.4#

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#4

Chloromethane

Concen: 0.638 ppbv

RT: 3.17 min Scan# 71

Delta R.T. -0.00 min

Lab File: VL033774.D

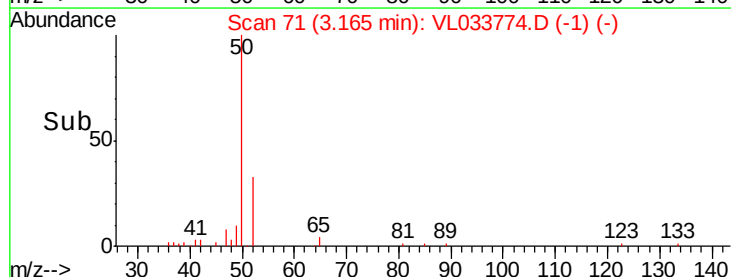
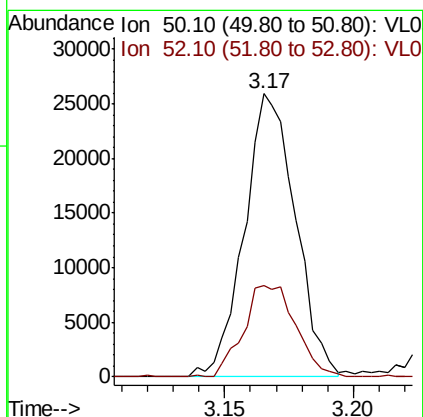
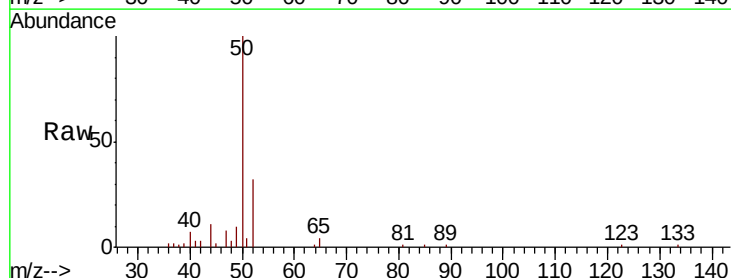
Acq: 23 May 2019 15:27

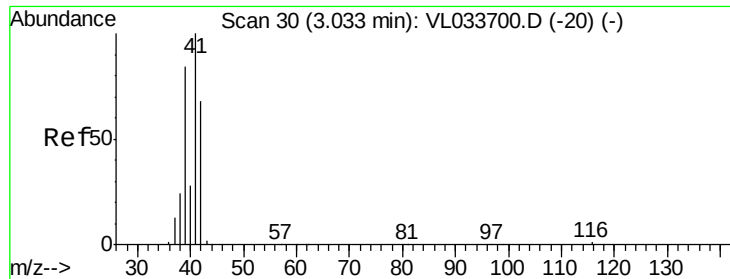
Tgt Ion: 50 Resp: 35760

Ion Ratio Lower Upper

50 100

52 31.2 25.7 38.5





#9

Propene

Concen: 3.556 ppbv

RT: 3.03 min Scan# 30

Delta R.T. 0.00 min

Lab File: VL033774.D

Acq: 23 May 2019 15:27

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3002-55DUP

Tot Ion: 41 Resp: 148169

Ion Ratio Lower Upper

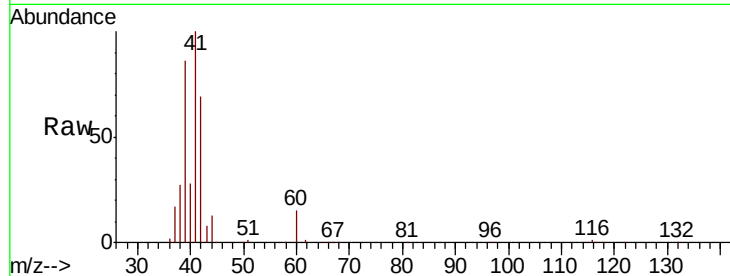
41 100

42 62.7 56.1 84.1

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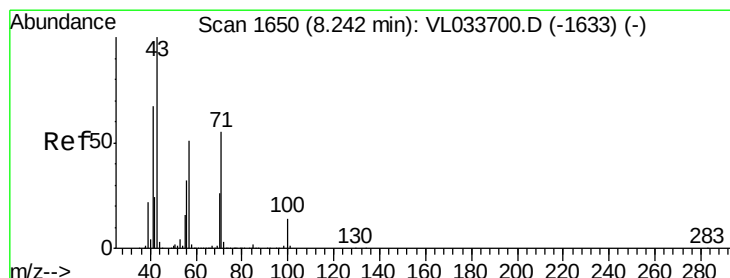
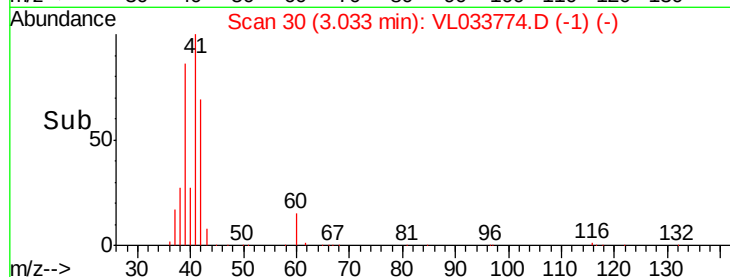
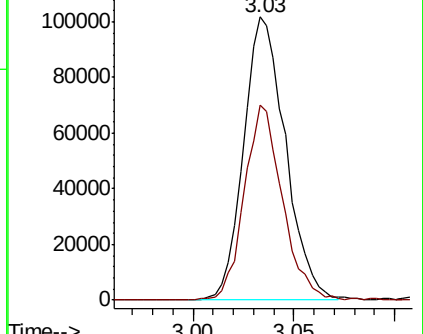
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 1.110 ppbv

RT: 8.24 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VL033774.D

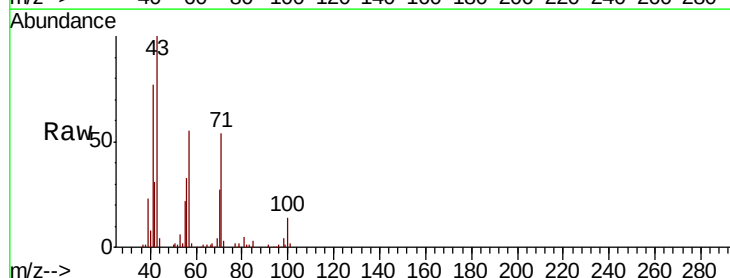
Acq: 23 May 2019 15:27

Tgt Ion: 43 Resp: 130931

Ion Ratio Lower Upper

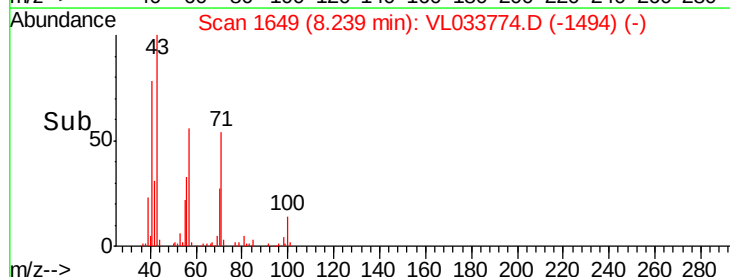
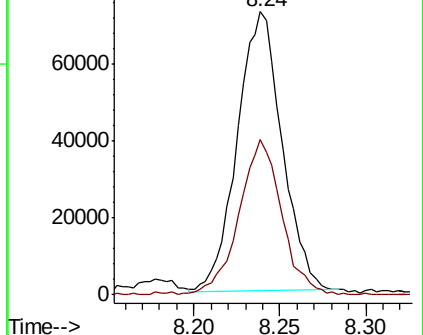
43 100

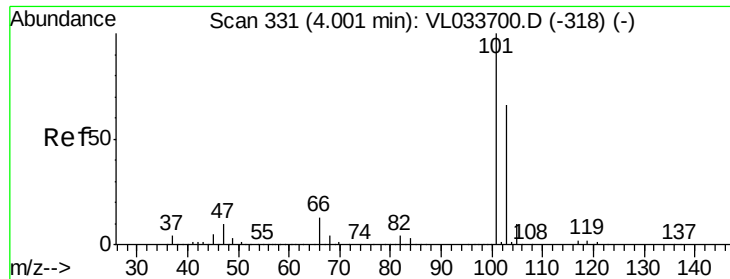
57 53.9 41.4 62.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





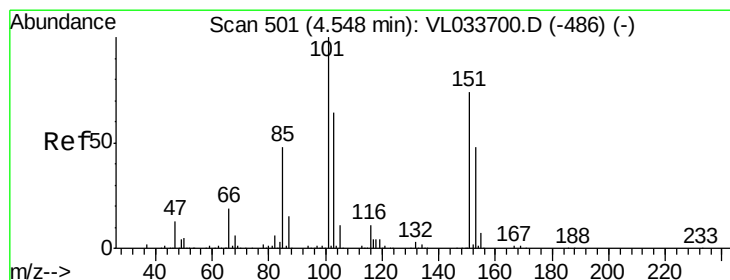
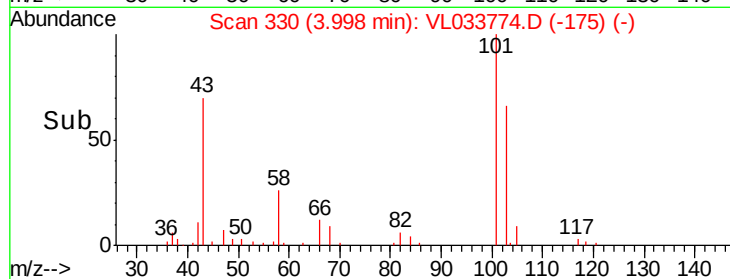
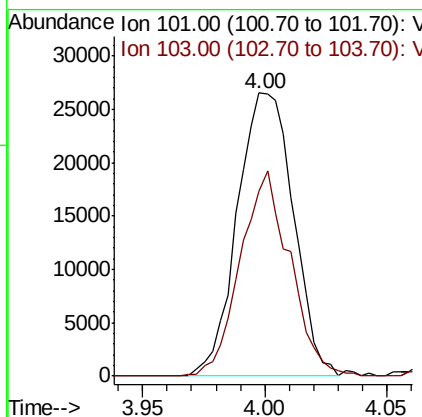
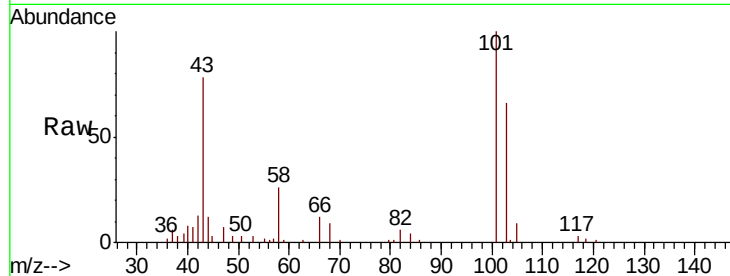
#11
 Trichlorofluoromethane
 Concen: 0.246 ppbv
 RT: 4.00 min Scan# 330
 Delta R.T. -0.00 min
 Lab File: VL033774.D
 Acq: 23 May 2019 15:27

Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3002-55DUP

Tot Ion	Ratio	Lower	Upper
101	100		
103	66.0	52.6	78.8

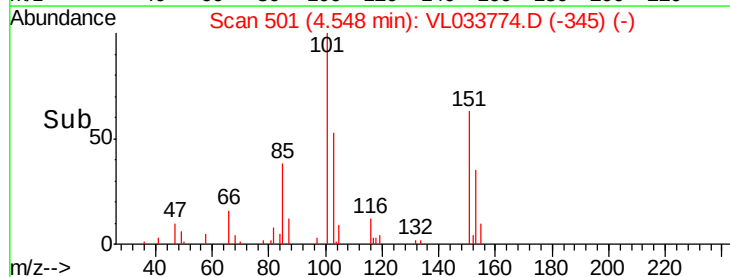
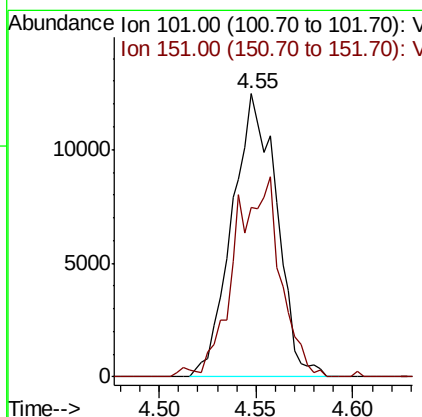
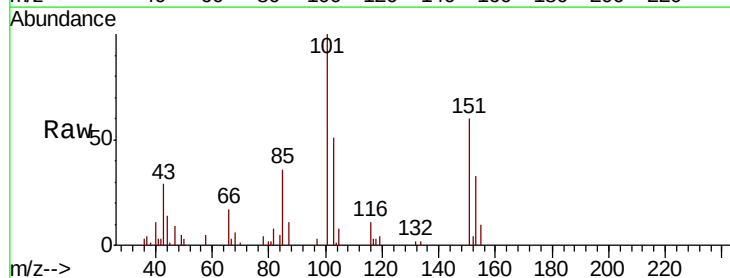
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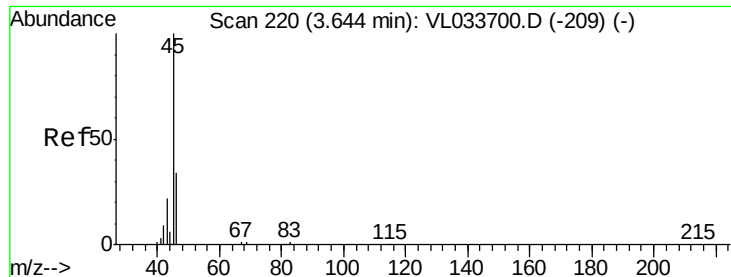
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.165 ppbv m
 RT: 4.55 min Scan# 501
 Delta R.T. 0.00 min
 Lab File: VL033774.D
 Acq: 23 May 2019 15:27

Tgt Ion	Ratio	Lower	Upper
101	100		
151	0.0	58.2	87.4#





#13

Ethanol

Concen: 19.265 ppbv

RT: 3.66 min Scan# 224

Delta R.T. 0.01 min

Lab File: VL033774.D

Acq: 23 May 2019 15:27

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3002-55DUP

Tot Ion: 45 Resp: 259481

Ion Ratio Lower Upper

45 100

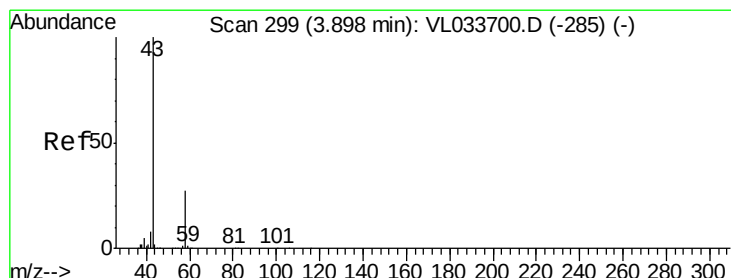
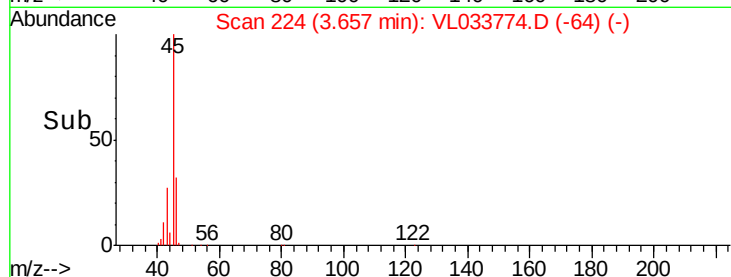
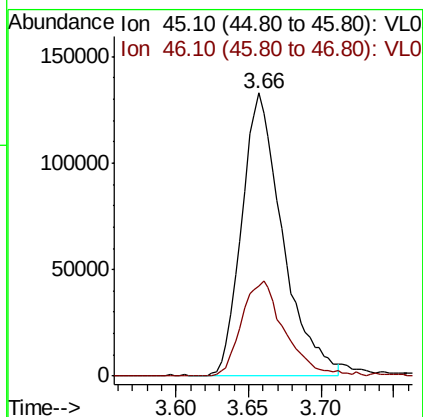
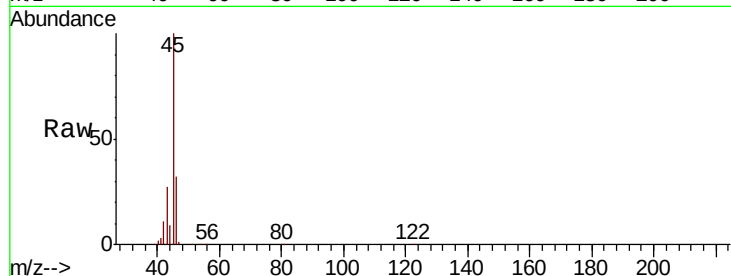
46 36.7 14.8 59.0

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#15

Acetone

Concen: 129.388 ppbv

RT: 3.89 min Scan# 298

Delta R.T. -0.00 min

Lab File: VL033774.D

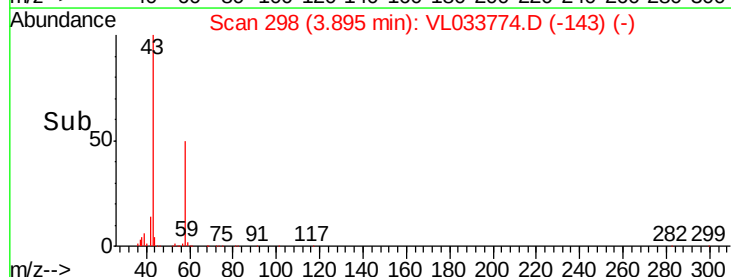
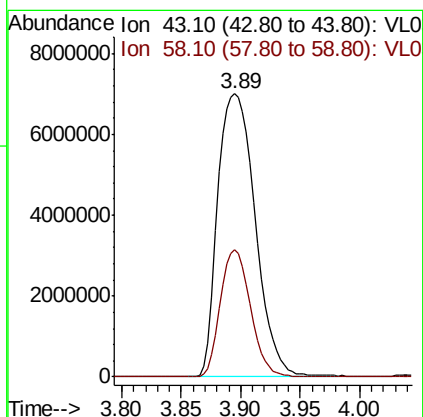
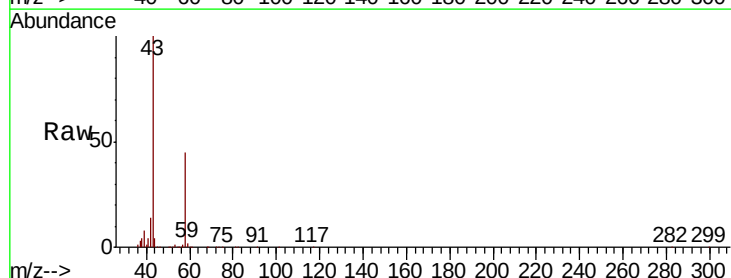
Acq: 23 May 2019 15:27

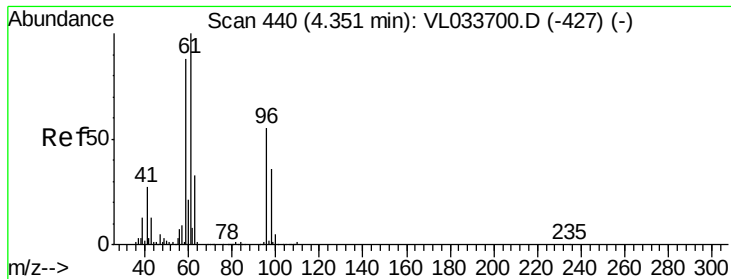
Tgt Ion: 43 Resp: 15354282

Ion Ratio Lower Upper

43 100

58 36.3 21.3 31.9#





#17

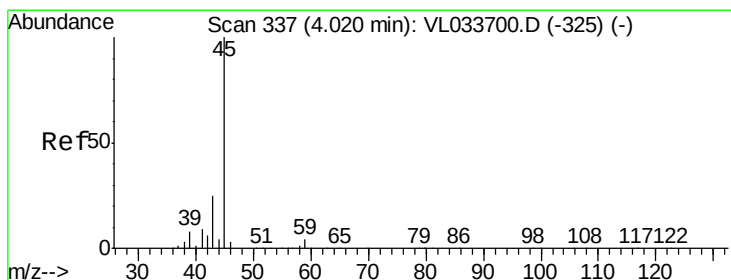
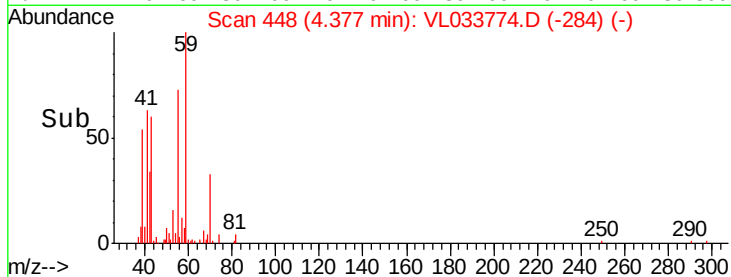
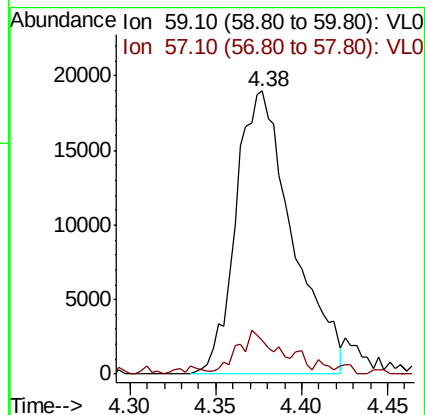
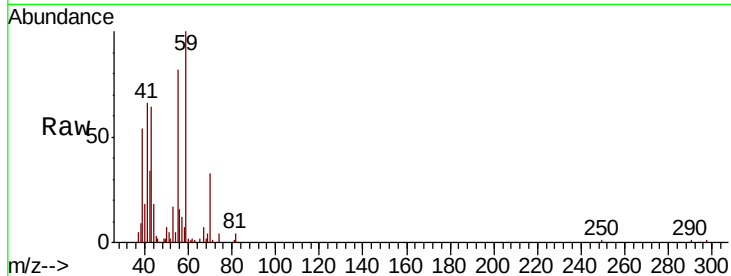
tert-Butyl alcohol
Concen: 0.452 ppbv
RT: 4.38 min Scan# 448
Delta R.T. 0.03 min
Lab File: VL033774.D
Acq: 23 May 2019 15:27

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3002-55DUP

Tot Ion: 59 Resp: 43349
Ion Ratio Lower Upper
59 100
57 337.9 8.4 12.6#

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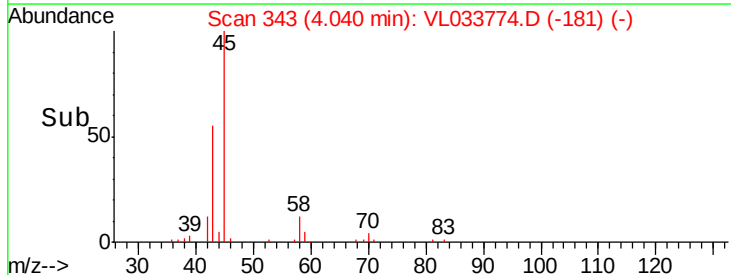
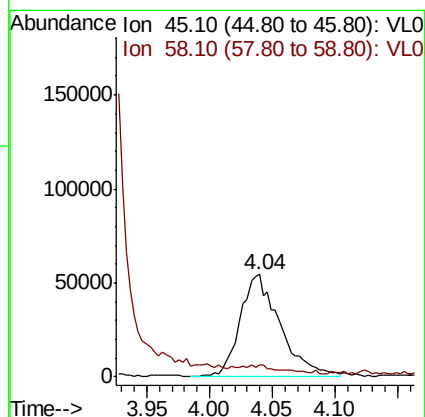
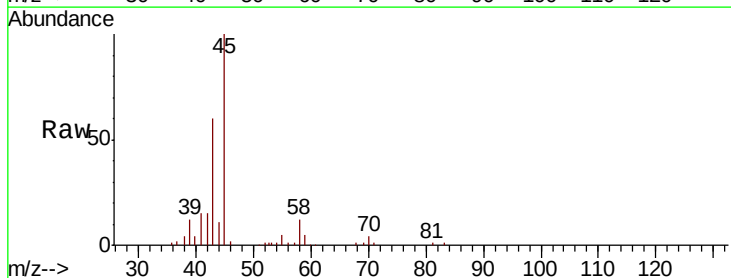
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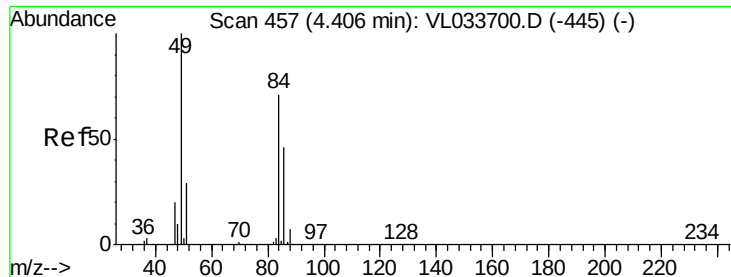


#19

Isopropyl Alcohol
Concen: 1.568 ppbv
RT: 4.04 min Scan# 343
Delta R.T. 0.02 min
Lab File: VL033774.D
Acq: 23 May 2019 15:27

Tgt Ion: 45 Resp: 120012
Ion Ratio Lower Upper
45 100
58 0.0 1.6 2.4#





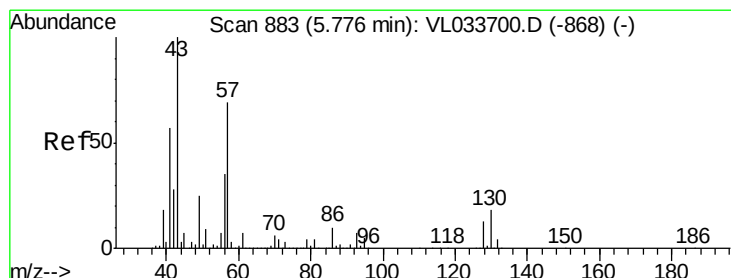
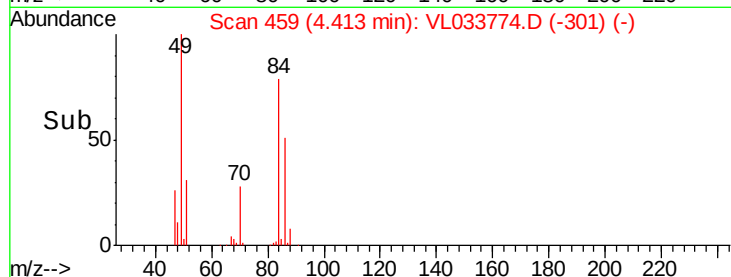
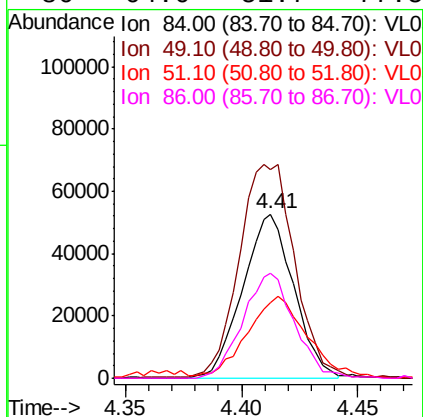
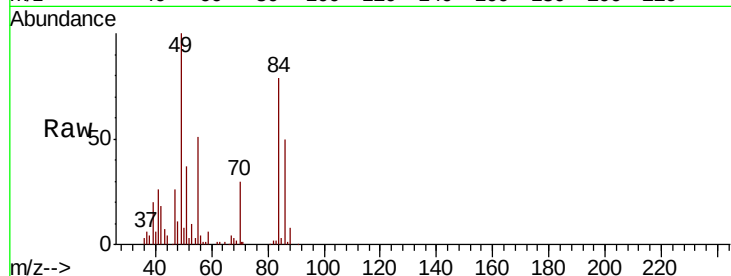
#20
Methvlene Chloride
Concen: 1.770 ppbv
RT: 4.41 min Scan# 459
Delta R.T. 0.01 min
Lab File: VL033774.D
Acq: 23 May 2019 15:27

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3002-55DUP

Tot Ion:	84	Resp:	80861
Ion	Ratio	Lower	Upper
84	100		
49	125.9	112.8	169.2
51	44.6	33.4	50.0
86	64.0	51.7	77.5

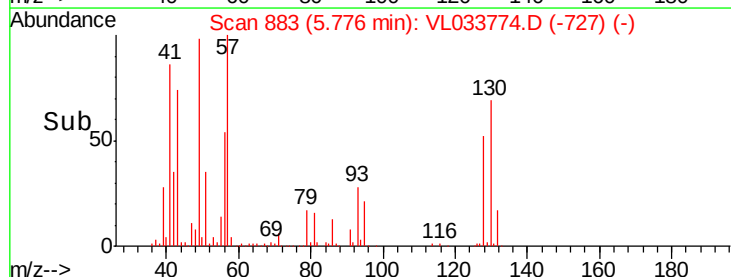
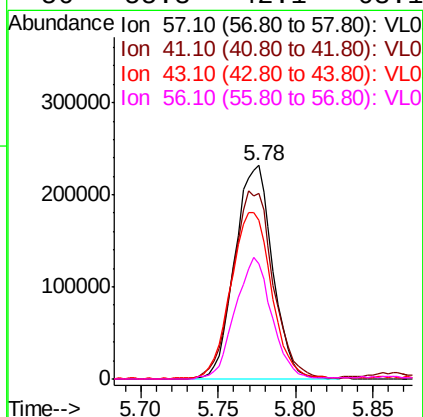
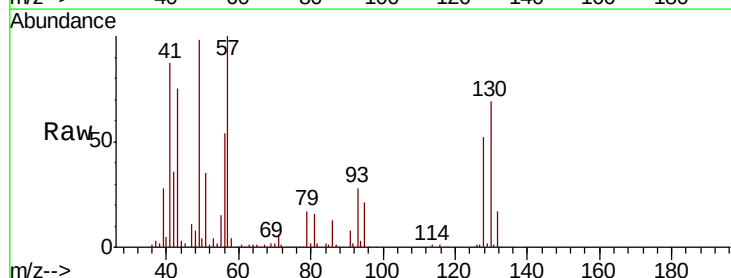
Manual Integrations
APPROVED

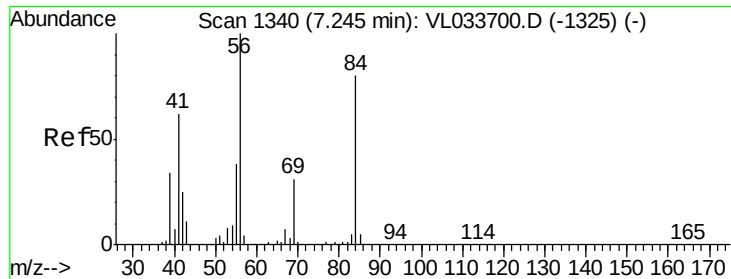
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#26
Hexane
Concen: 4.379 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.00 min
Lab File: VL033774.D
Acq: 23 May 2019 15:27

Tgt Ion:	57	Resp:	392419
Ion	Ratio	Lower	Upper
57	100		
41	94.9	69.8	104.6
43	83.8	181.8	272.6#
56	55.3	42.1	63.1





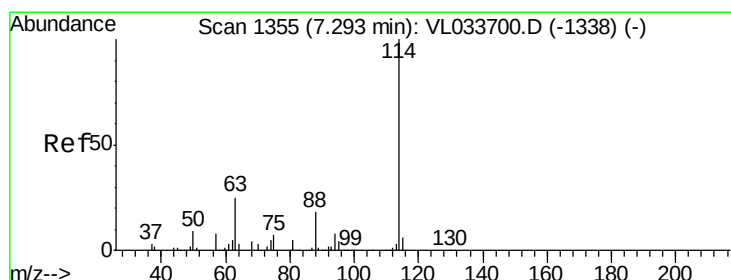
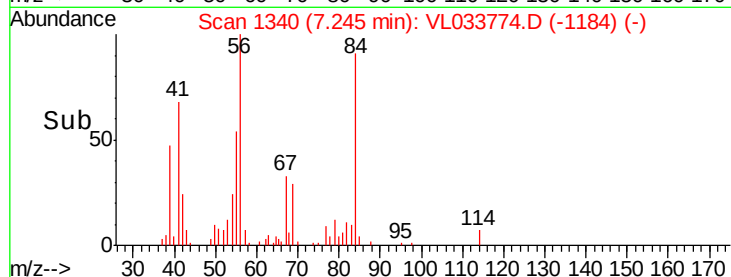
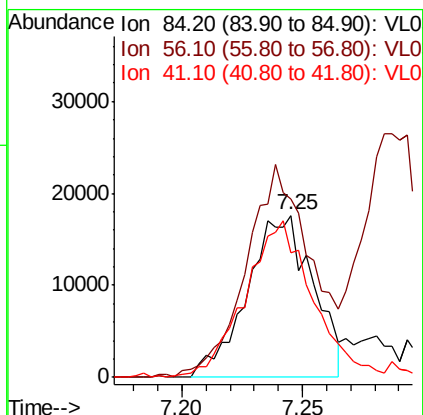
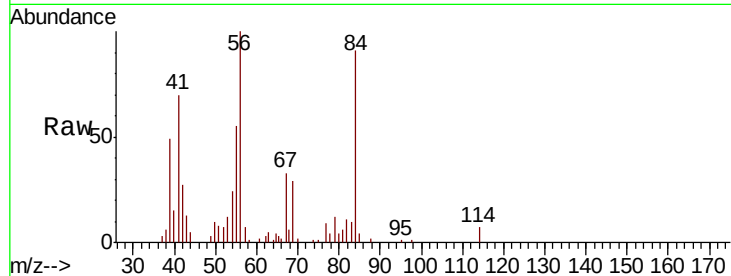
#30
Cyclohexane
Concen: 0.443 ppbv m
RT: 7.25 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VL033774.D
Acq: 23 May 2019 15:27

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3002-55DUP

Tot Ion	Ratio	Lower	Upper
84	100		
56	125.2	107.7	161.5
41	102.6	66.0	99.0#

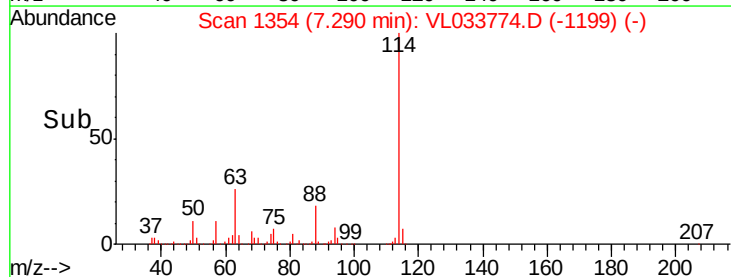
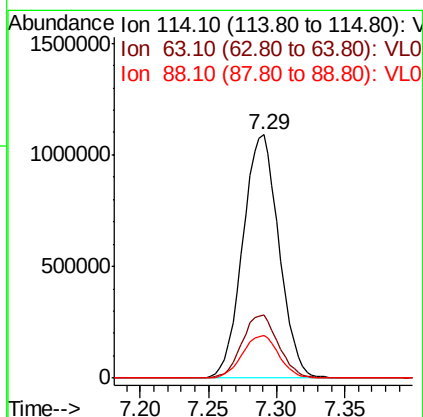
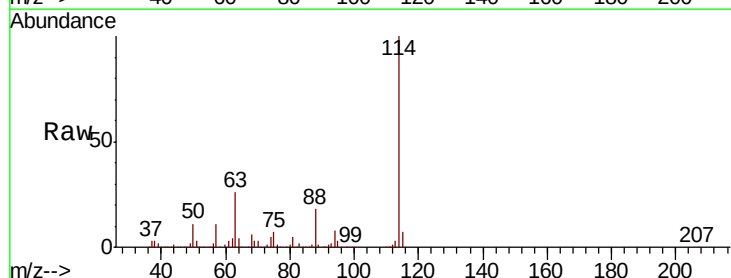
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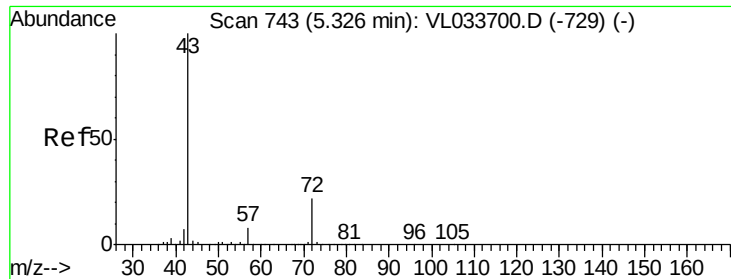
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1354
Delta R.T. -0.00 min
Lab File: VL033774.D
Acq: 23 May 2019 15:27

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.1	20.9	31.3
88	17.7	14.3	21.5





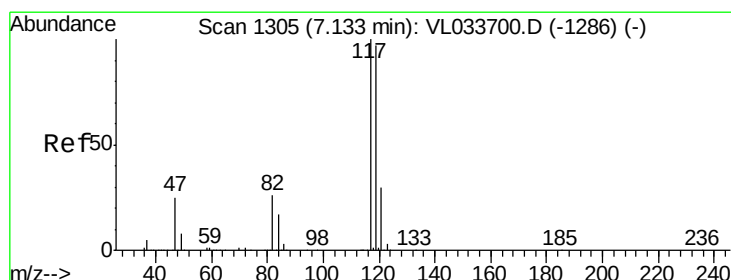
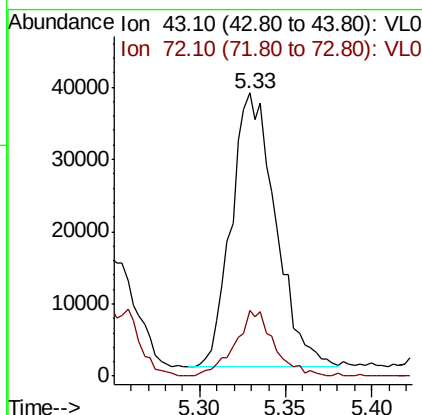
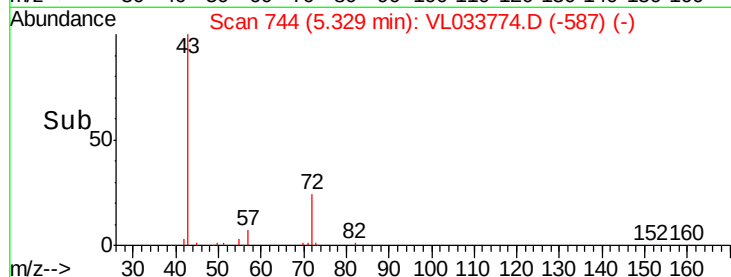
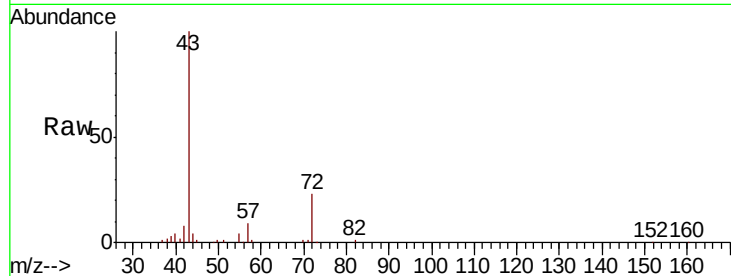
#34
2-Butanone
Concen: 0.546 ppbv
RT: 5.33 min Scan# 744
Delta R.T. 0.00 min
Lab File: VL033774.D
Acq: 23 May 2019 15:27

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3002-55DUP

Tot Ion: 43 Resp: 67910
Ion Ratio Lower Upper
43 100
72 21.3 17.8 26.6

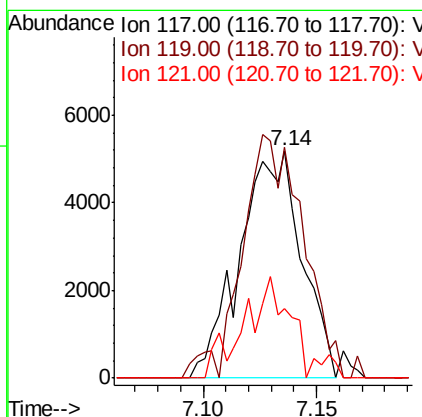
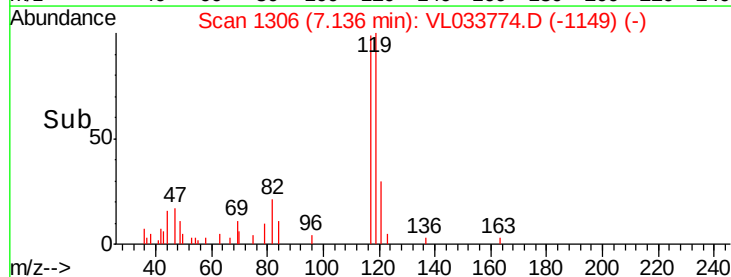
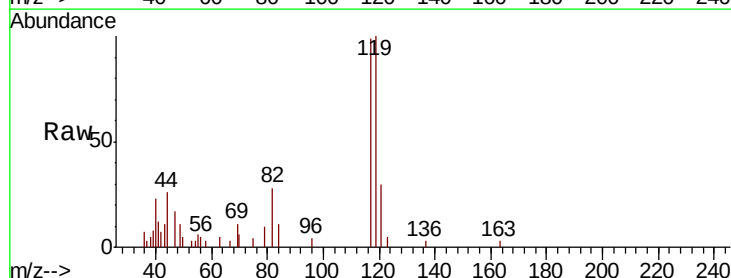
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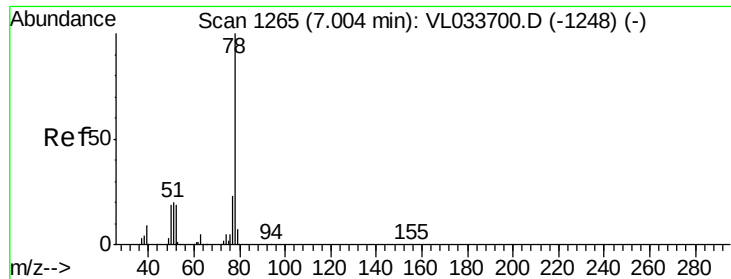
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#35
Carbon Tetrachloride
Concen: 0.061 ppbv m
RT: 7.14 min Scan# 1306
Delta R.T. 0.00 min
Lab File: VL033774.D
Acq: 23 May 2019 15:27

Tgt Ion: 117 Resp: 9809
Ion Ratio Lower Upper
117 100
119 101.3 77.2 115.8
121 30.4 24.1 36.1





#36

Benzene

Concen: 1.055 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. 0.00 min

Lab File: VL033774.D

Acq: 23 May 2019 15:27

Instrument :

MSVOA_L

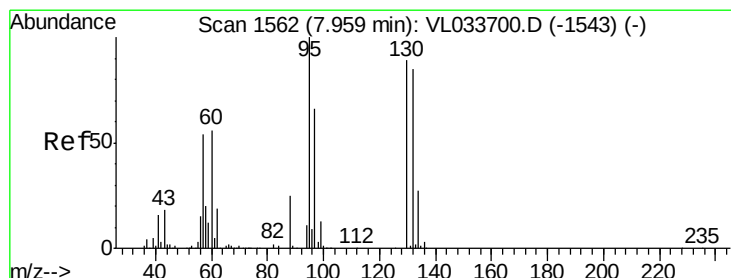
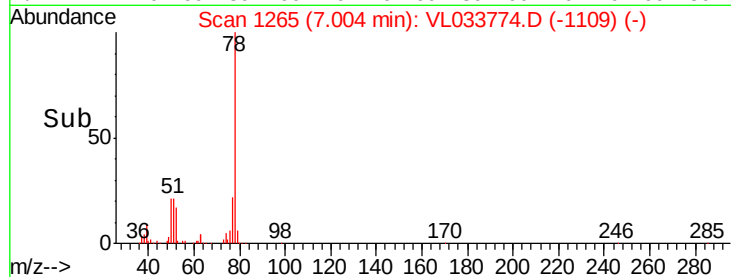
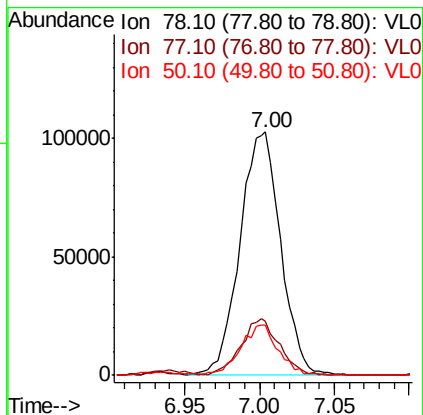
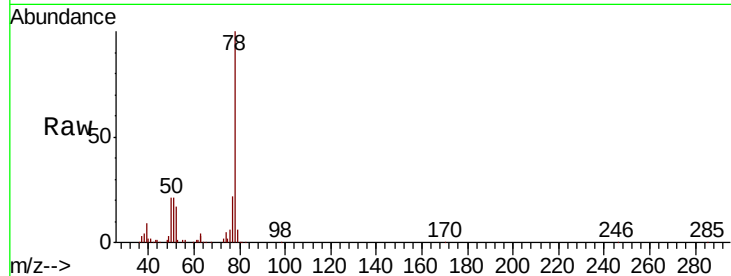
ClientSampleId :

BPS1-SG-3002-55DUP

Tot Ion:	78	Resp:	192520
Ion	Ratio	Lower	Upper
78	100		
77	21.9	18.4	27.6
50	20.7	15.5	23.3

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#38

Trichloroethene

Concen: 0.042 ppbv m

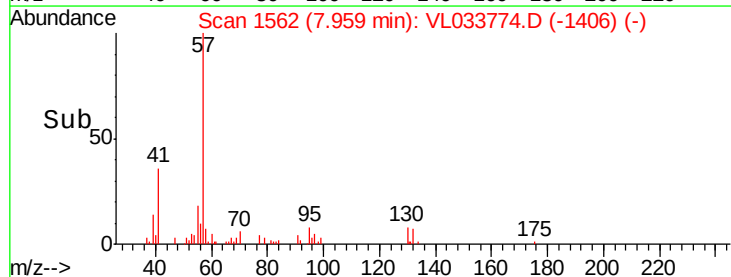
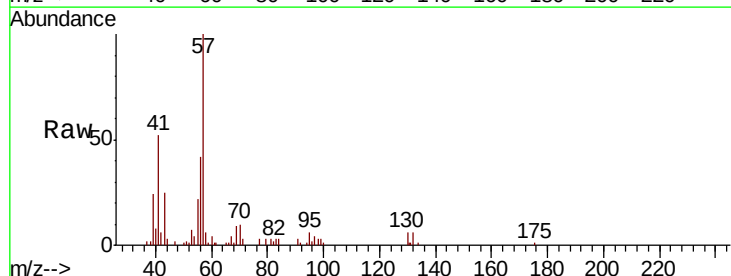
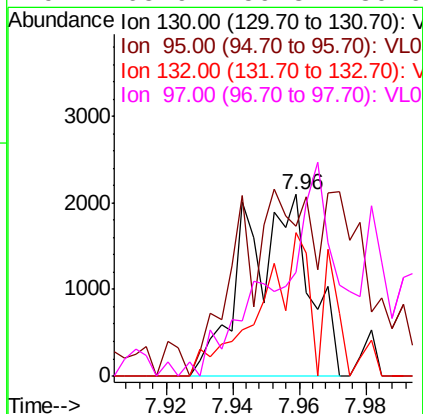
RT: 7.96 min Scan# 1562

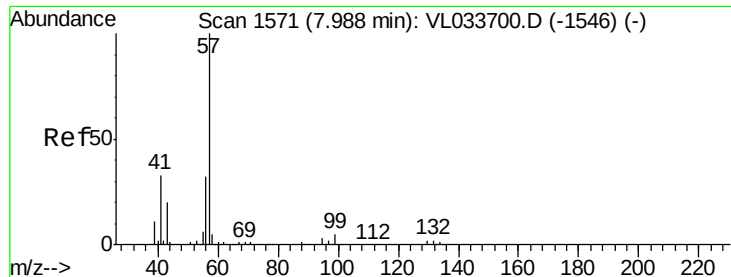
Delta R.T. 0.00 min

Lab File: VL033774.D

Acq: 23 May 2019 15:27

Tgt Ion:	130	Resp:	2826
Ion	Ratio	Lower	Upper
130	100		
95	95.7	90.2	135.4
132	91.7	76.4	114.6
97	65.9	59.8	89.6





#44

2,2,4-Trimethylpentane

Concen: 0.744 ppbv m

RT: 7.98 min Scan# 1568

Delta R.T. -0.01 min

Lab File: VL033774.D

Acq: 23 May 2019 15:27

Instrument :

MSVOA_L

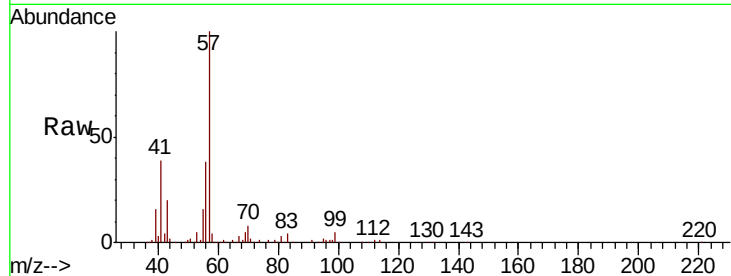
ClientSampleId :

BPS1-SG-3002-55DUP

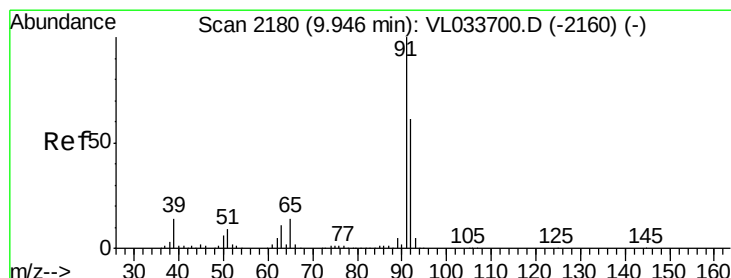
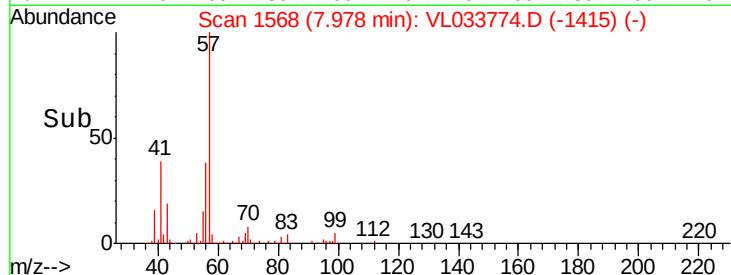
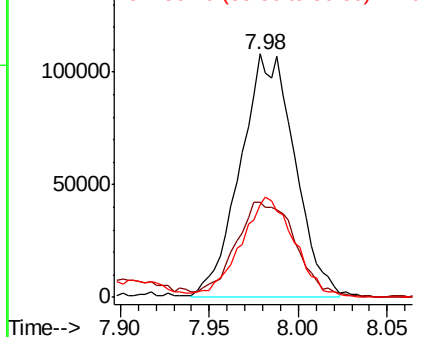
Tot Ion	57	Resp	229508
Ion Ratio	Lower	Upper	
57	100		
41	43.2	25.4	38.0#
56	40.9	24.7	37.1#

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Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0



#53

Toluene

Concen: 6.086 ppbv

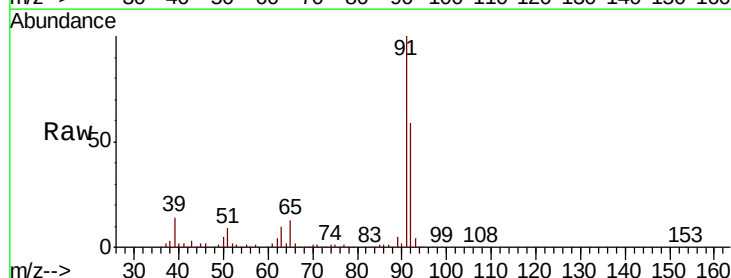
RT: 9.94 min Scan# 2177

Delta R.T. -0.01 min

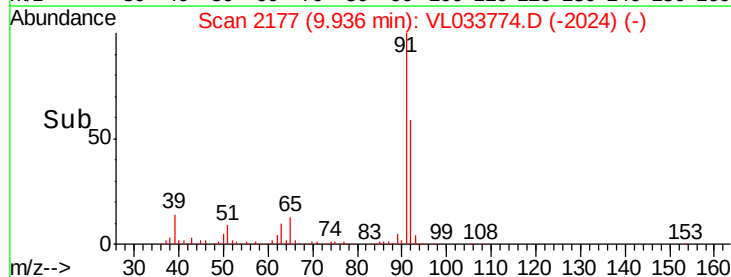
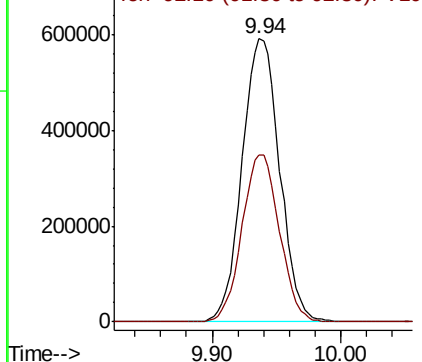
Lab File: VL033774.D

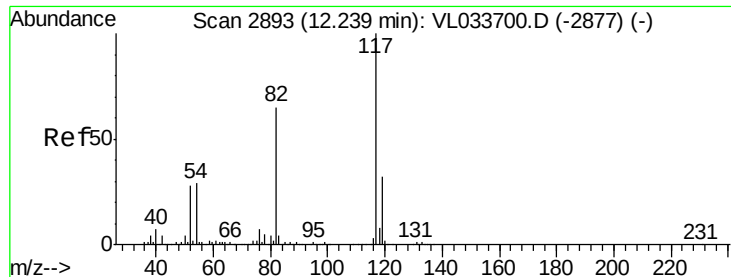
Acq: 23 May 2019 15:27

Tgt Ion	91	Resp	1197793
Ion Ratio	Lower	Upper	
91	100		
92	59.0	47.6	71.4



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0





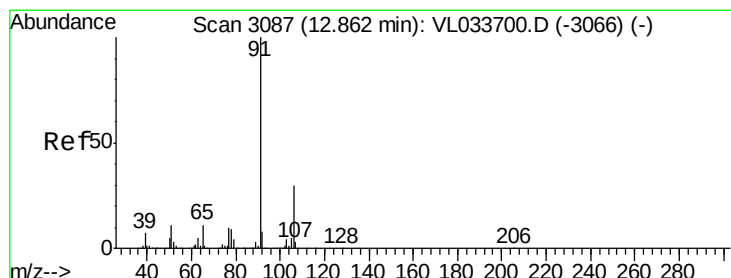
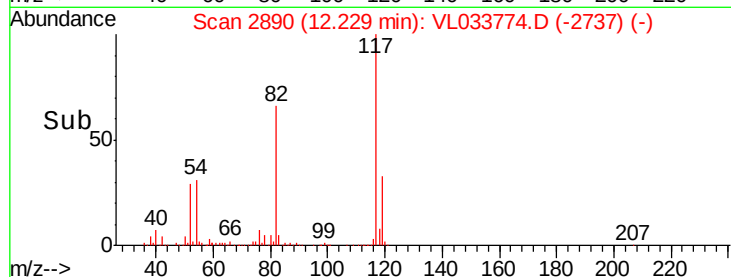
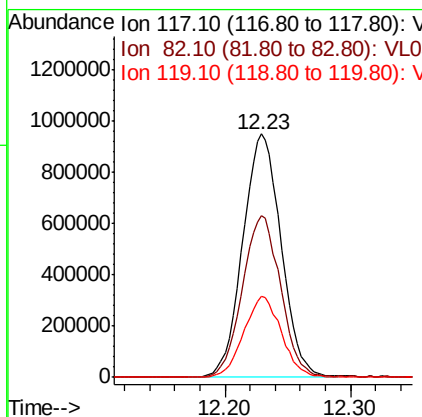
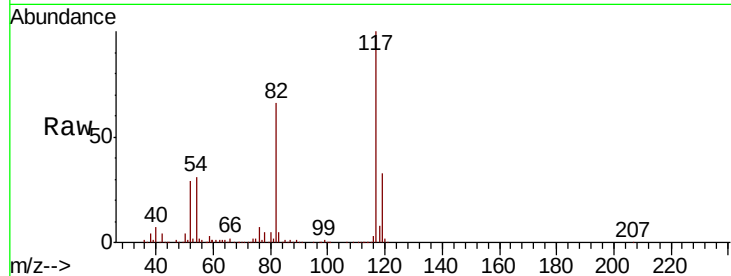
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2890
Delta R.T. -0.01 min
Lab File: VL033774.D
Acq: 23 May 2019 15:27

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3002-55DUP

Tot Ion	Ratio	Lower	Upper
117	100		
82	67.0	49.4	74.0
119	32.6	24.9	37.3

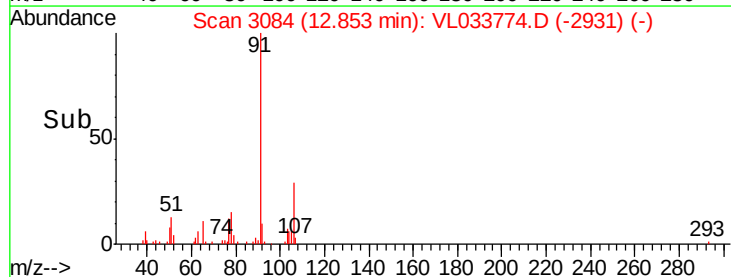
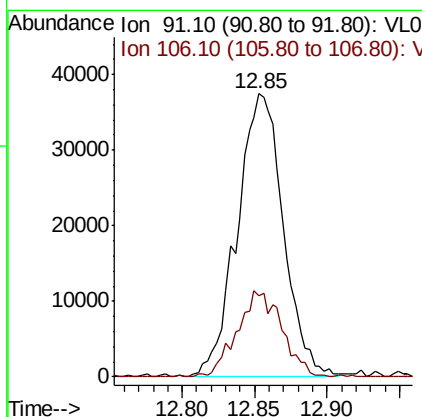
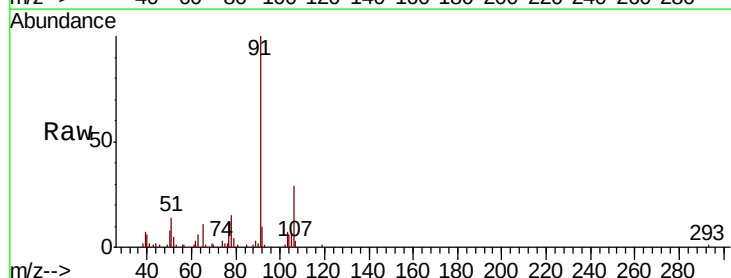
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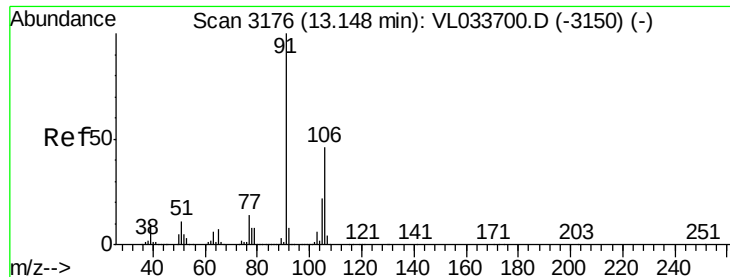
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#58
Ethyl Benzene
Concen: 0.310 ppbv
RT: 12.85 min Scan# 3084
Delta R.T. -0.01 min
Lab File: VL033774.D
Acq: 23 May 2019 15:27

Tgt Ion	Ratio	Lower	Upper
91	100		
106	31.9	23.9	35.9





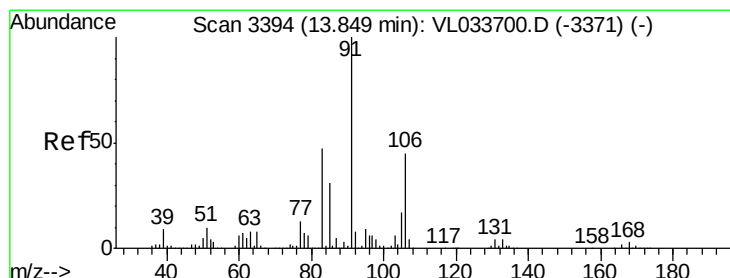
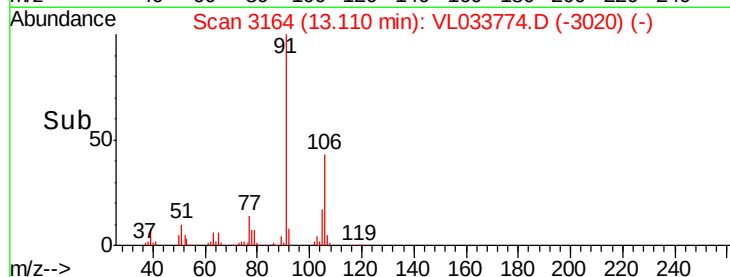
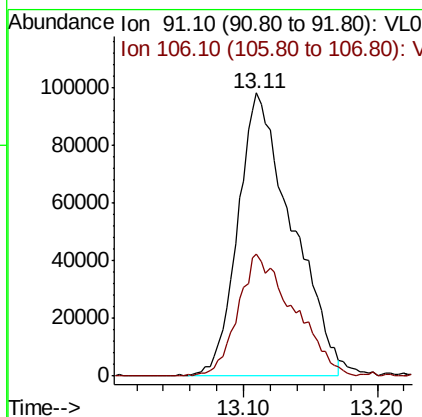
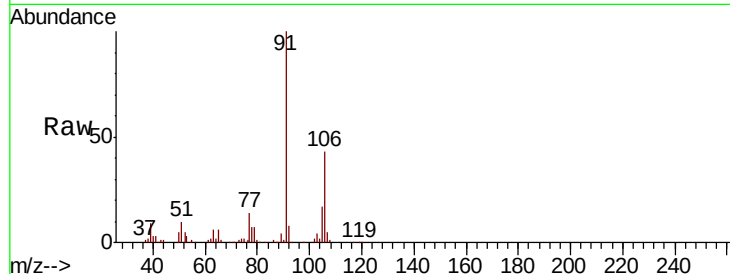
#59
m/p-Xylene
Concen: 1.180 ppbv m
RT: 13.11 min Scan# 3164
Delta R.T. -0.04 min
Lab File: VL033774.D
Acq: 23 May 2019 15:27

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3002-55DUP

Tot Ion: 91 Resp: 275497
Ion Ratio Lower Upper
91 100
106 0.0 35.8 53.6#

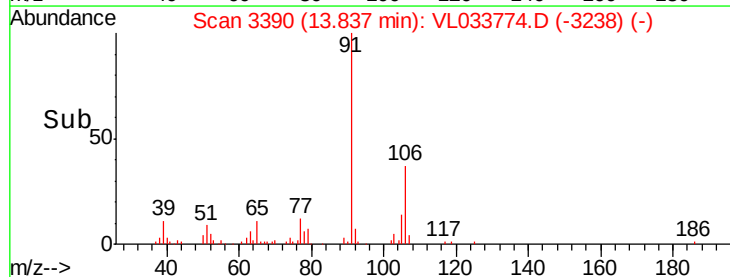
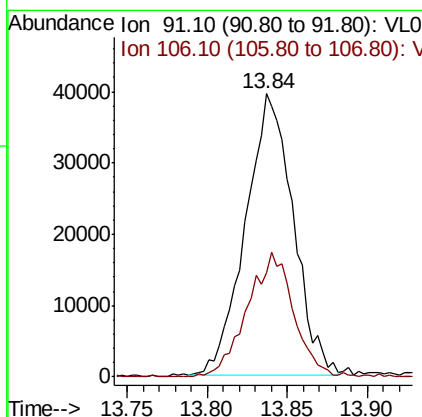
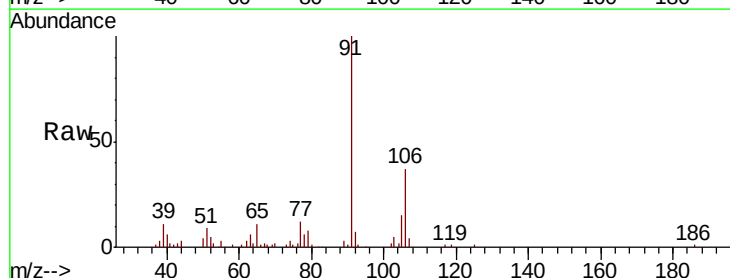
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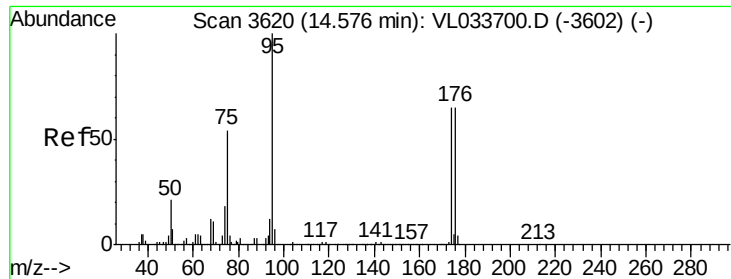
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#60
o-Xylene
Concen: 0.344 ppbv
RT: 13.84 min Scan# 3390
Delta R.T. -0.01 min
Lab File: VL033774.D
Acq: 23 May 2019 15:27

Tgt Ion: 91 Resp: 80892
Ion Ratio Lower Upper
91 100
106 42.9 21.6 64.8





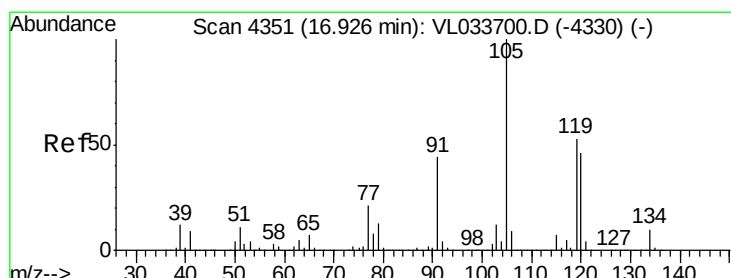
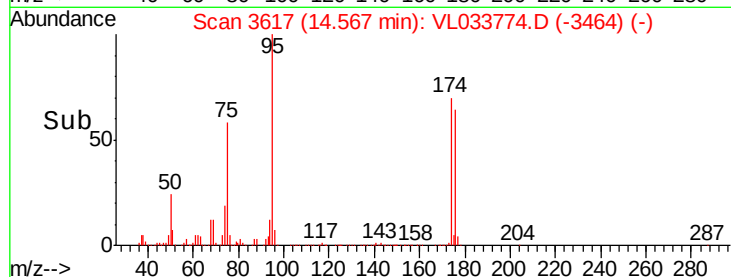
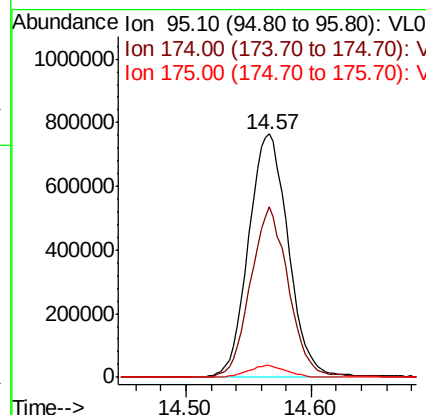
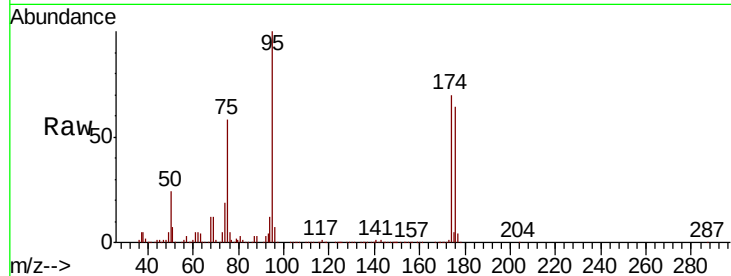
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.290 ppbv
 RT: 14.57 min Scan# 3617
 Delta R.T. -0.01 min
 Lab File: VL033774.D
 Acq: 23 May 2019 15:27

Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3002-55DUP

Tot Ion: 95 Resp: 1681827
 Ion Ratio Lower Upper
 95 100
 174 67.7 53.9 80.9
 175 4.8 3.8 5.8

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#74
 1,2,4-Trimethylbenzene
 Concen: 0.182 ppbv m
 RT: 16.92 min Scan# 4349
 Delta R.T. -0.01 min
 Lab File: VL033774.D
 Acq: 23 May 2019 15:27

Tgt Ion: 105 Resp: 51960
 Ion Ratio Lower Upper
 105 100
 120 33.0 36.8 55.2#
 91 13.6 35.4 53.0#
 77 17.9 16.8 25.2

