

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL120219\
 Data File : VL034431.D
 Acq On : 2 Dec 2019 18:12
 Operator : SY/AP
 Sample : K6068-03
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-3

Quant Time: Dec 03 02:50:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 19 14:15:35 2019
 QLast Update : Tue Nov 19 14:15:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	910414	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.23	114	1799461	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.16	117	1870516	10.00	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.49	95	1544596	9.82	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.20%

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.02	85	541457	3.287	ppbv 94
3) Chlorodifluoromethane	2.96	51	178634	1.573	ppbv 94
4) Chloromethane	3.12	50	2921	0.044	ppbv # 75
7) Chloroethane	3.54	64	8498	0.373	ppbv # 83
8) Dichlorotetrafluoroethane	3.02	85	541457	3.661	ppbv # 19
9) Propene	2.99	41	267778	5.310	ppbv 84
10) Heptane	8.18	43	42883	0.329	ppbv # 67
11) Trichlorofluoromethane	3.95	101	43462	0.265	ppbv # 81
12) 1,1,2-Trichlorotrifluoroet	4.49	101	8674	0.080	ppbv 95
13) Ethanol	3.61	45	708045	50.402	ppbv 95
15) Acetone	3.85	43	2276456	17.462	ppbv 99
16) 1,3-Butadiene	3.29	39	505203	8.896	ppbv # 15
17) tert-Butyl alcohol	4.32	59	416724	3.803	ppbv 99
19) Isopropyl Alcohol	3.99	45	7522300	90.020	ppbv # 98
20) Methylene Chloride	4.35	84	151221	3.271	ppbv 97
21) Allyl Chloride	4.37	41	26985	0.345	ppbv # 21
22) trans-1,2-Dichloroethene	4.90	96	246595	5.137	ppbv 94
23) Vinyl Acetate	5.11	43	378120	2.220	ppbv # 75
24) 1,1-Dichloroethane	5.02	63	169510	1.296	ppbv 99
25) Ethyl Acetate	5.71	43	161468	0.694	ppbv # 90
26) Hexane	5.71	57	152360	1.524	ppbv # 48
27) Carbon Disulfide	4.56	76	30612	0.281	ppbv # 1
29) Chloroform	5.78	83	2288855	14.139	ppbv 97
30) Cyclohexane	7.17	84	29115	0.385	ppbv # 52
31) cis-1,2-Dichloroethene	5.57	61	4845325	46.906	ppbv # 81
32) 1,1,1-Trichloroethane	6.55	97	2288492	15.078	ppbv 99
34) 2-Butanone	5.29	43	424974	2.869	ppbv 99
36) Benzene	6.93	78	128387	0.714	ppbv 93
38) Trichloroethene	7.92	130	20670383	280.016	ppbv 87
39) 1,2-Dichloropropane	7.91	63	103193	1.489	ppbv # 1
41) Tetrahydrofuran	6.10	42	220243	2.651	ppbv 96
42) Bromodichloromethane	7.92	83	811496	4.855	ppbv # 95
44) 2,2,4-Trimethylpentane	7.93	57	13382	0.041	ppbv # 41
50) 4-Methyl-2-Pentanone	8.80	43	83254	0.388	ppbv 99
51) 2-Hexanone	10.20	43	97575	0.544	ppbv # 90
52) Tetrachloroethene	11.31	164	8635070	110.947	ppbv 86
53) Toluene	9.87	91	1083784	5.304	ppbv 98
58) Ethyl Benzene	12.78	91	235754	0.812	ppbv 90
59) m/p-Xylene	13.06	91	170678	0.680	ppbv # 33
60) o-Xylene	13.76	91	256861	1.035	ppbv 96
65) tert-Butylbenzene	16.83	119	18573	0.063	ppbv # 1

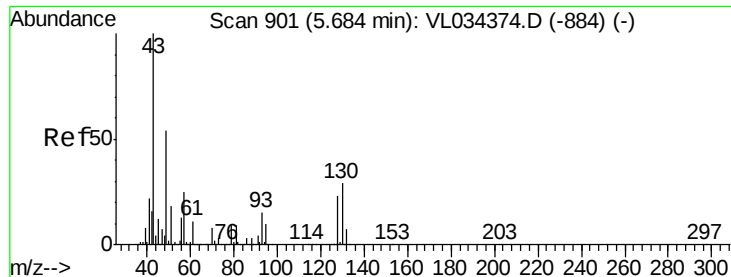
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL120219\
Data File : VL034431.D
Acq On : 2 Dec 2019 18:12
Operator : SY/AP
Sample : K6068-03
Misc : 400ml/MSVOA_L
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Instrument :
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Quant Time: Dec 03 02:50:48 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111919AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 19 14:15:35 2019
QLast Update : Tue Nov 19 14:15:35 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) p-Isopropyltoluene	17.73	119	55759	0.163	ppbv #	1
72) 4-Ethyltoluene	15.91	105	98276	0.343	ppbv	97
73) 1,3,5-Trimethylbenzene	16.08	105	26930	0.096	ppbv	87
74) 1,2,4-Trimethylbenzene	16.84	105	161991	0.543	ppbv #	63
75) 1,3-Dichlorobenzene	17.08	146	90548	0.529	ppbv #	6

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.00 min

Lab File: VL034431.D

Acq: 2 Dec 2019 18:12

Instrument :

MSVOA_L

ClientSampleId :

SV-3

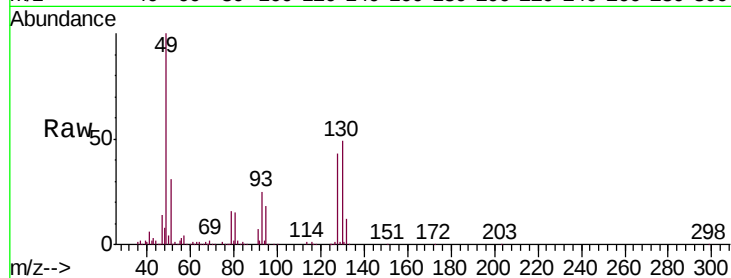
Tgt Ion: 49 Resp: 910414

Ion Ratio Lower Upper

49 100

128 43.9 21.8 65.3

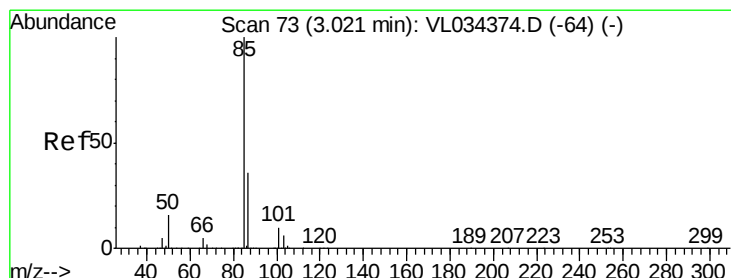
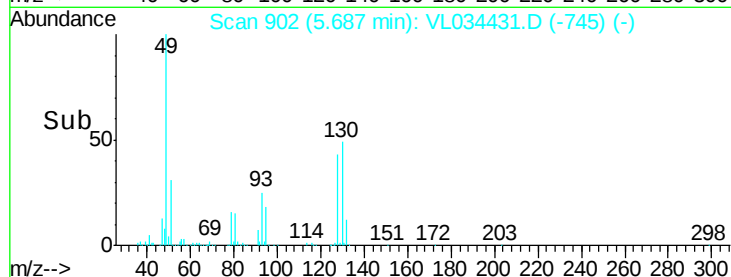
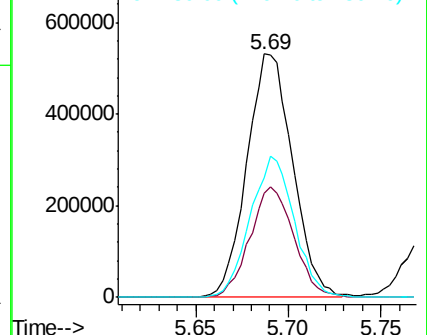
130 56.2 28.0 84.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 3.287 ppbv

RT: 3.02 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL034431.D

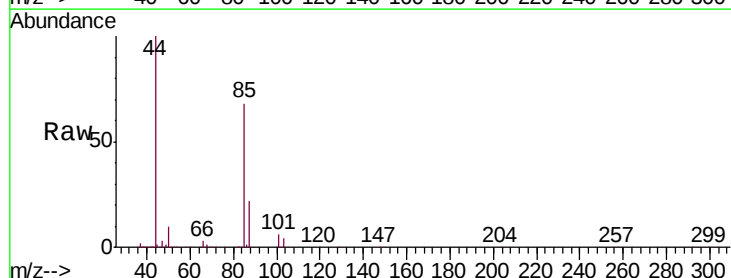
Acq: 2 Dec 2019 18:12

Tgt Ion: 85 Resp: 541457

Ion Ratio Lower Upper

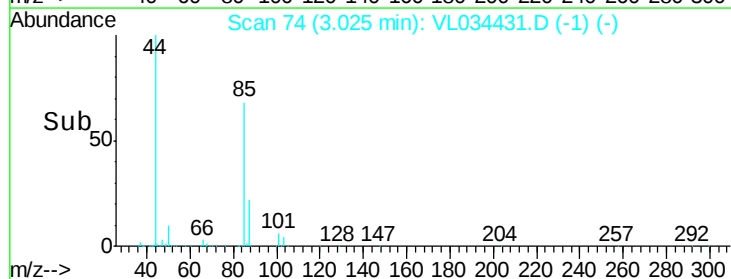
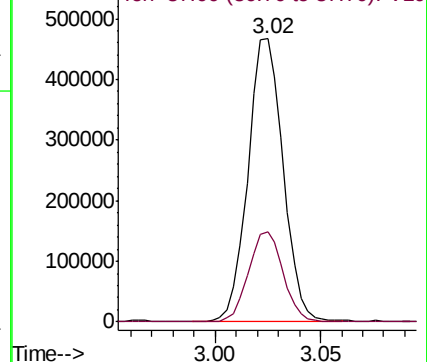
85 100

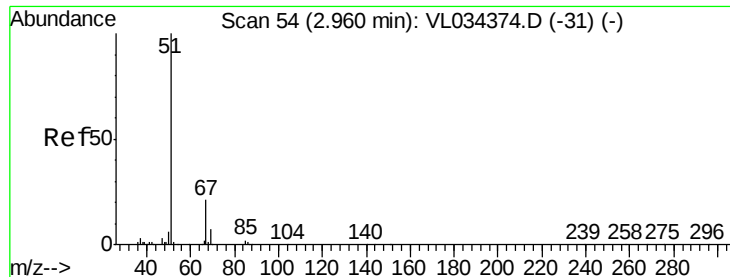
87 31.9 28.5 42.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.573 ppbv

RT: 2.96 min Scan# 54

Delta R.T. 0.00 min

Lab File: VL034431.D

Acq: 2 Dec 2019 18:12

Instrument :

MSVOA_L

ClientSampleId :

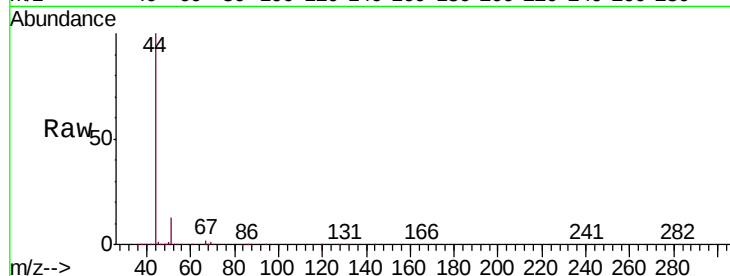
SV-3

Tgt Ion: 51 Resp: 178634

Ion Ratio Lower Upper

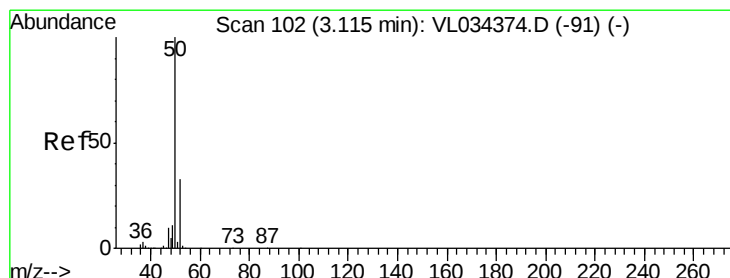
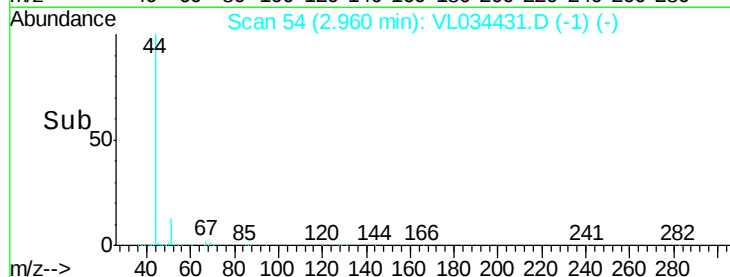
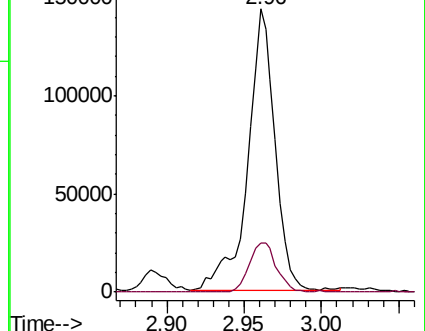
51 100

67 17.6 16.2 24.2



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.044 ppbv

RT: 3.12 min Scan# 103

Delta R.T. 0.00 min

Lab File: VL034431.D

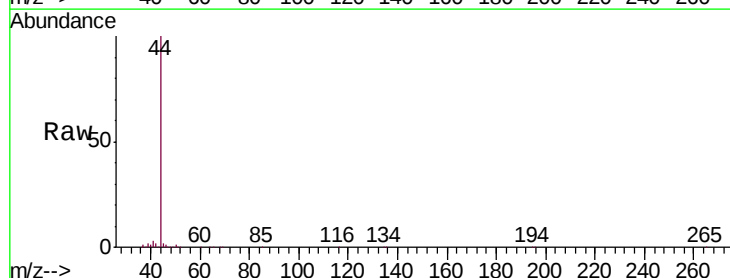
Acq: 2 Dec 2019 18:12

Tgt Ion: 50 Resp: 2921

Ion Ratio Lower Upper

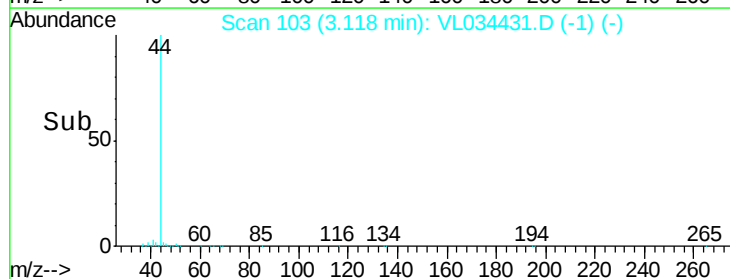
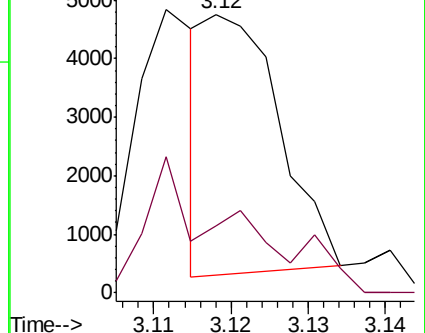
50 100

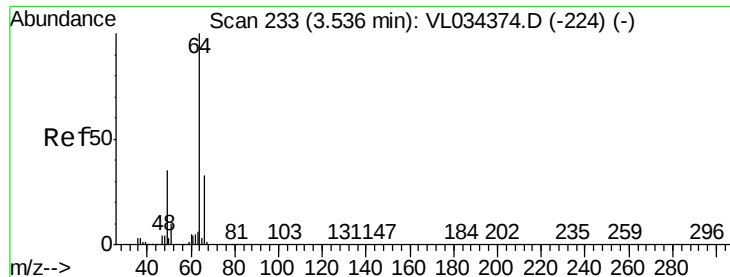
52 19.5 26.8 40.2#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 0.373 ppbv

RT: 3.54 min Scan# 235

Delta R.T. 0.01 min

Lab File: VL034431.D

Acq: 2 Dec 2019 18:12

Instrument :

MSVOA_L

ClientSampleID :

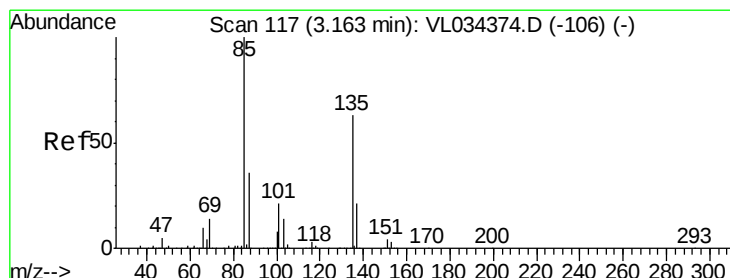
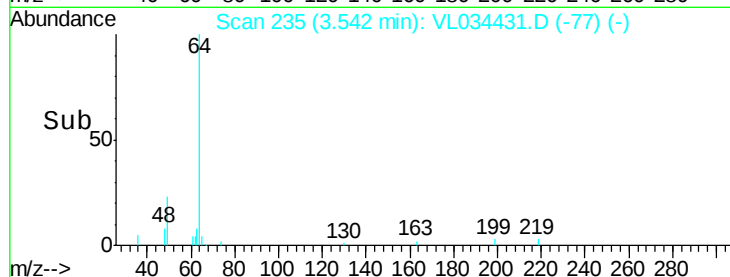
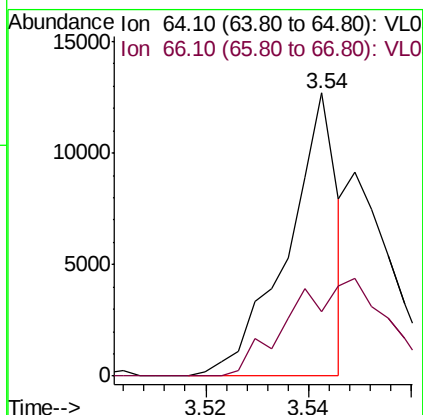
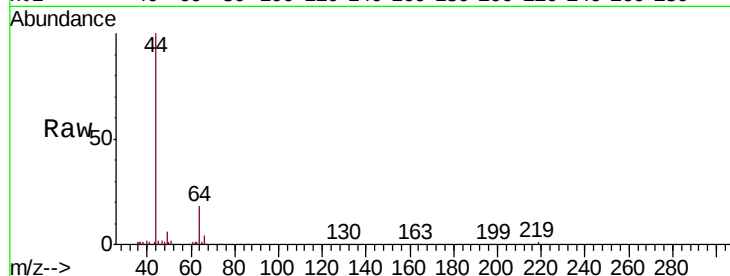
SV-3

Tgt Ion: 64 Resp: 8498

Ion Ratio Lower Upper

64 100

66 22.7 26.0 39.0#



#8

Dichlorotetrafluoroethane

Concen: 3.661 ppbv

RT: 3.02 min Scan# 74

Delta R.T. -0.14 min

Lab File: VL034431.D

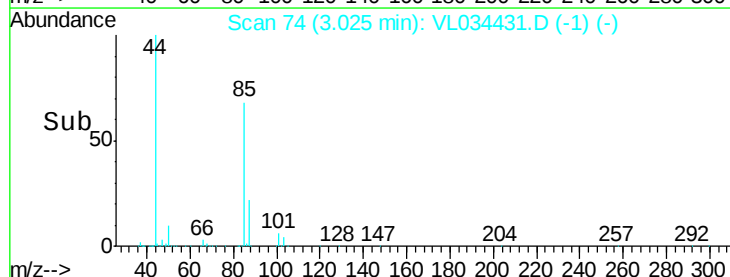
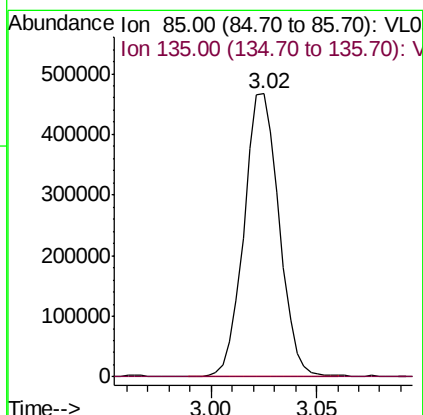
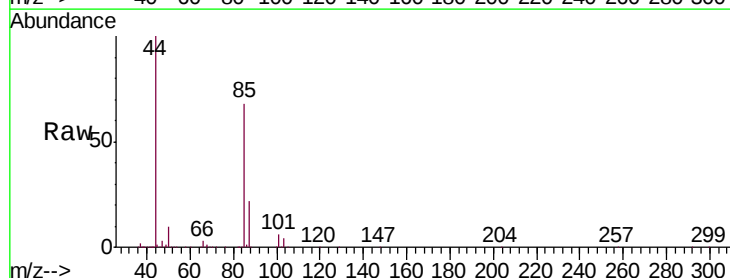
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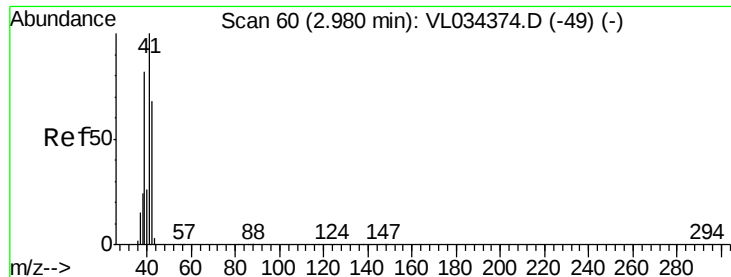
Tgt Ion: 85 Resp: 541457

Ion Ratio Lower Upper

85 100

135 0.5 51.1 76.7#





#9

Propene

Concen: 5.310 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.01 min

Lab File: VL034431.D

Acq: 2 Dec 2019 18:12

Instrument :

MSVOA_L

ClientSampleId :

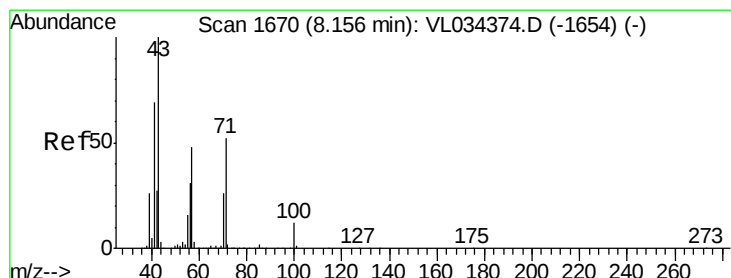
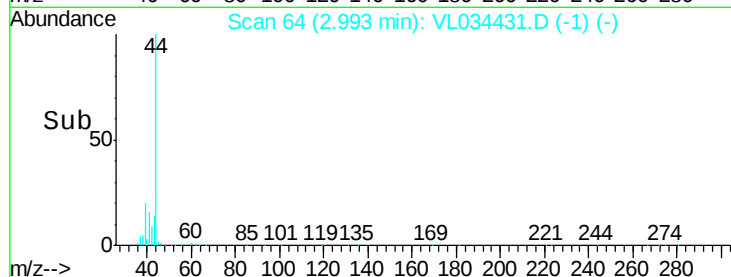
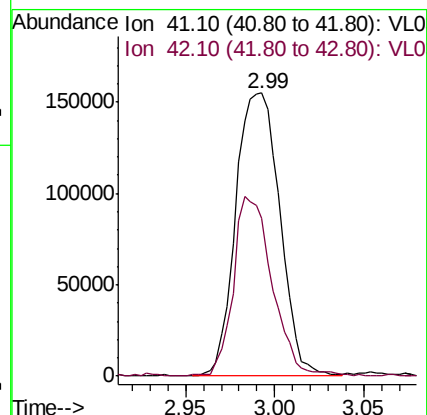
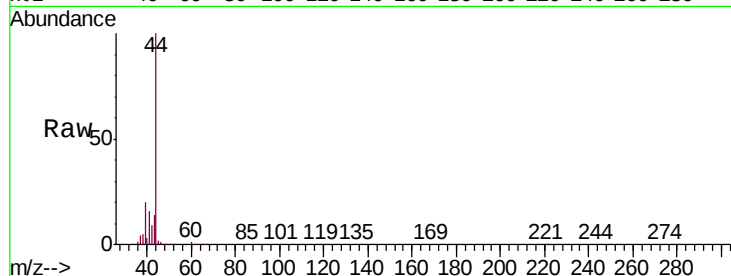
SV-3

Tgt Ion: 41 Resp: 267778

Ion Ratio Lower Upper

41 100

42 55.6 54.6 82.0



#10

Heptane

Concen: 0.329 ppbv

RT: 8.18 min Scan# 1677

Delta R.T. 0.02 min

Lab File: VL034431.D

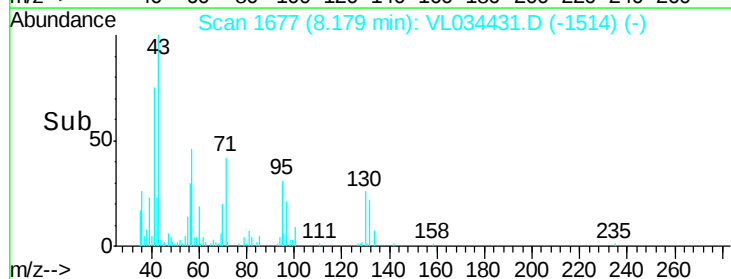
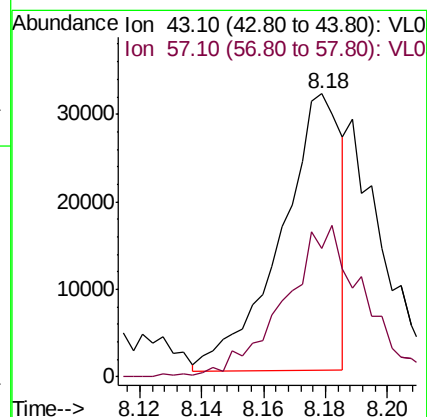
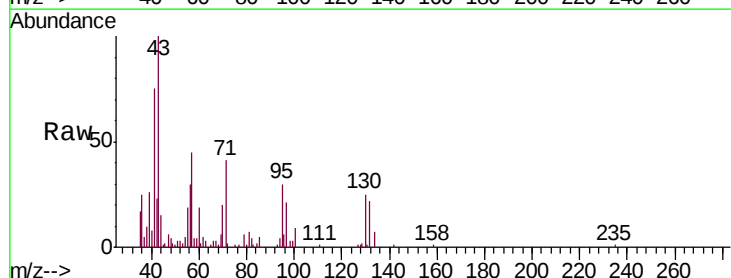
Acq: 2 Dec 2019 18:12

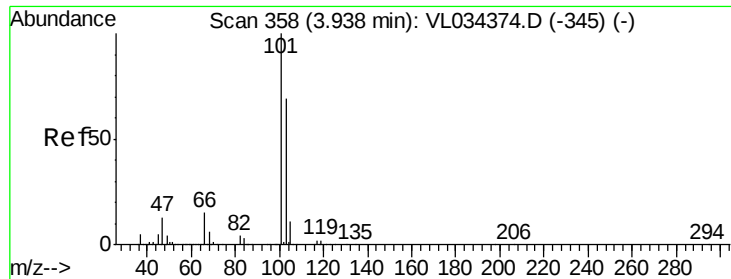
Tgt Ion: 43 Resp: 42883

Ion Ratio Lower Upper

43 100

57 73.1 40.2 60.2#

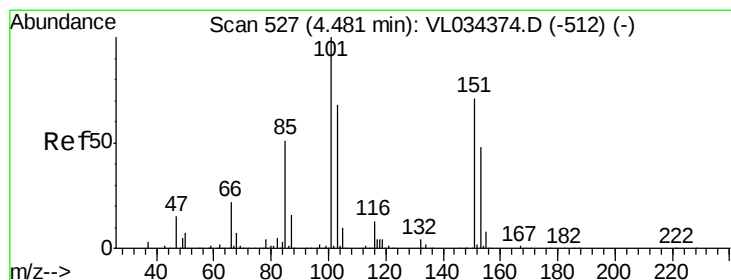
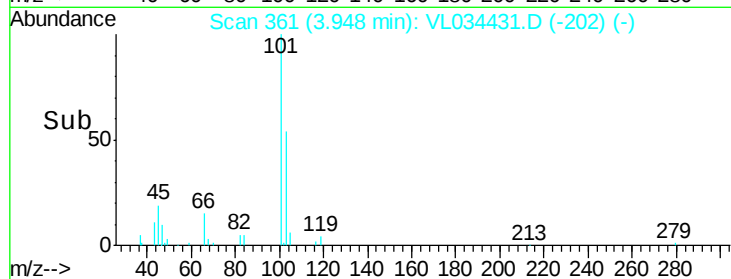
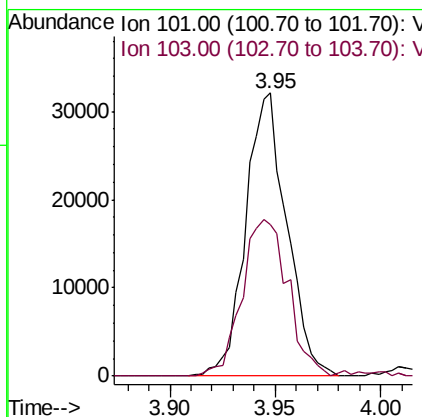
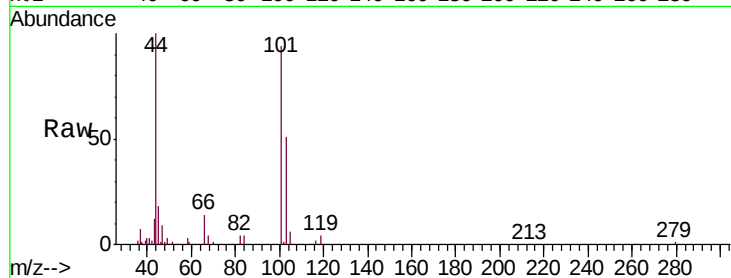




#11
 Trichlorofluoromethane
 Concen: 0.265 ppbv
 RT: 3.95 min Scan# 361
 Delta R.T. 0.01 min
 Lab File: VL034431.D
 Acq: 2 Dec 2019 18:12

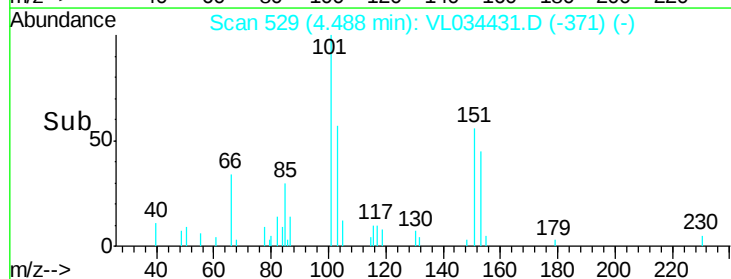
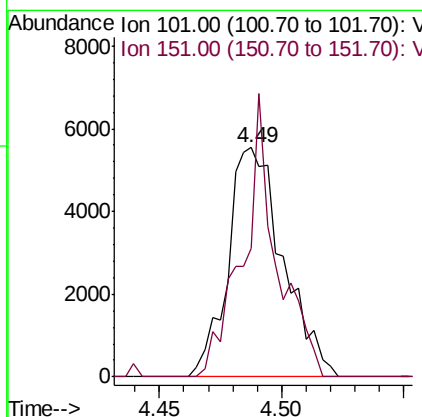
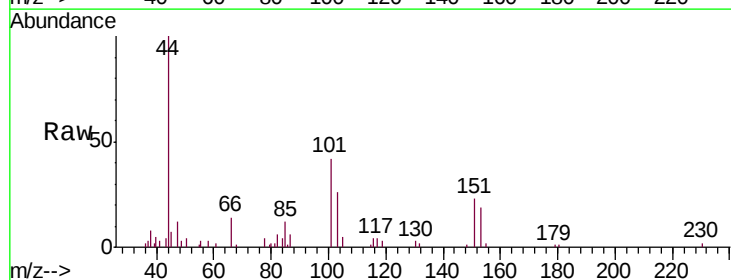
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-3

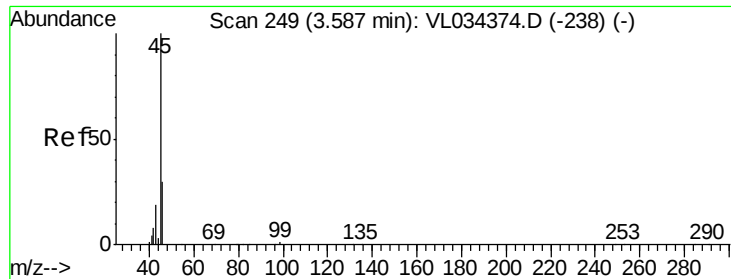
Tgt Ion:101 Resp: 43462
 Ion Ratio Lower Upper
 101 100
 103 53.5 55.4 83.0#



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.080 ppbv
 RT: 4.49 min Scan# 529
 Delta R.T. 0.01 min
 Lab File: VL034431.D
 Acq: 2 Dec 2019 18:12

Tgt Ion:101 Resp: 8674
 Ion Ratio Lower Upper
 101 100
 151 75.5 57.4 86.2





#13

Ethanol

Concen: 50.402 ppbv

RT: 3.61 min Scan# 257

Delta R.T. 0.03 min

Lab File: VL034431.D

Acq: 2 Dec 2019 18:12

Instrument :

MSVOA_L

ClientSampleId :

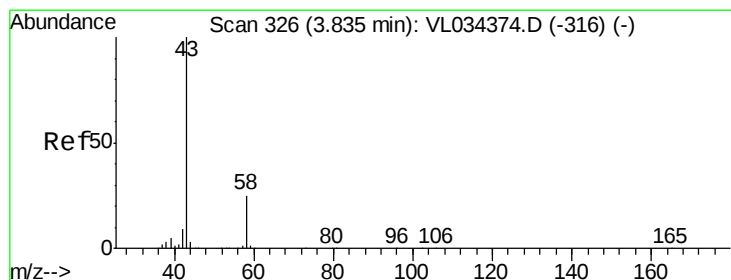
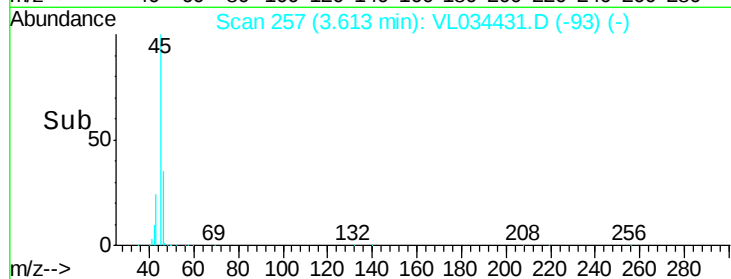
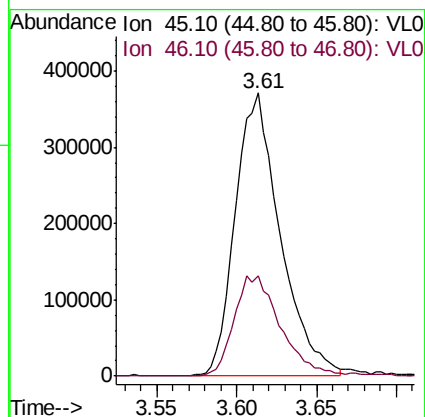
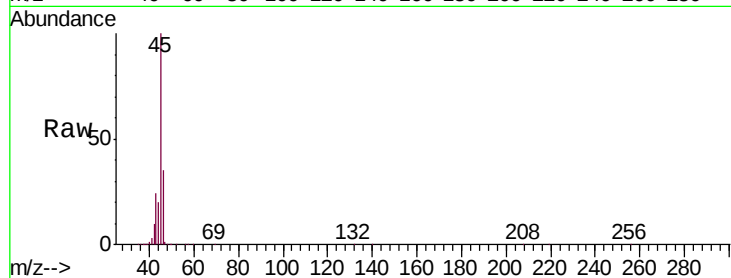
SV-3

Tgt Ion: 45 Resp: 708045

Ion Ratio Lower Upper

45 100

46 37.5 13.8 55.4



#15

Acetone

Concen: 17.462 ppbv

RT: 3.85 min Scan# 330

Delta R.T. 0.01 min

Lab File: VL034431.D

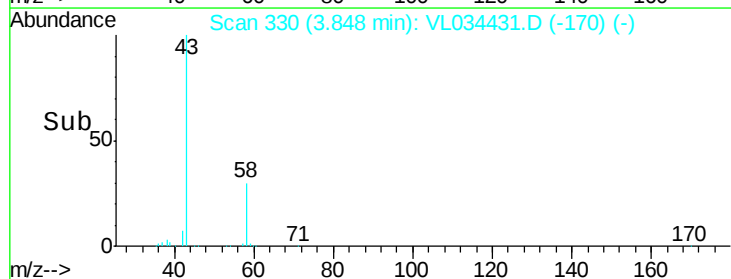
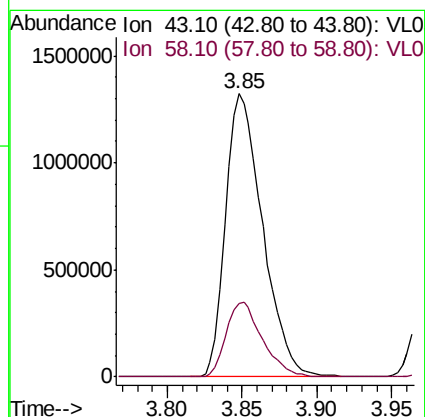
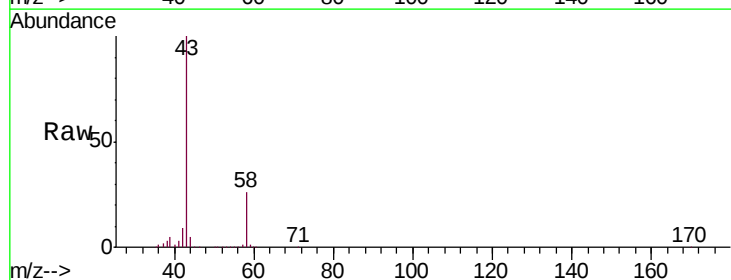
Acq: 2 Dec 2019 18:12

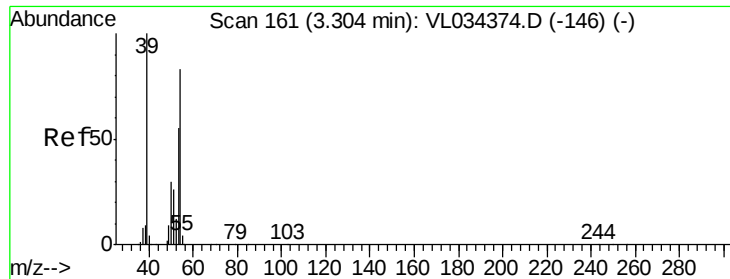
Tgt Ion: 43 Resp: 2276456

Ion Ratio Lower Upper

43 100

58 26.0 20.2 30.4

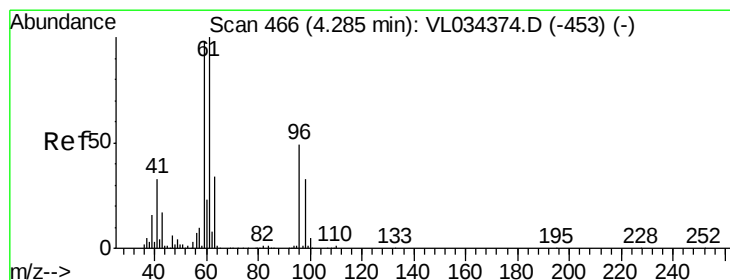
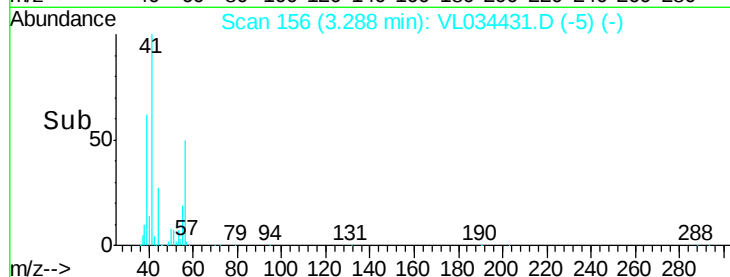
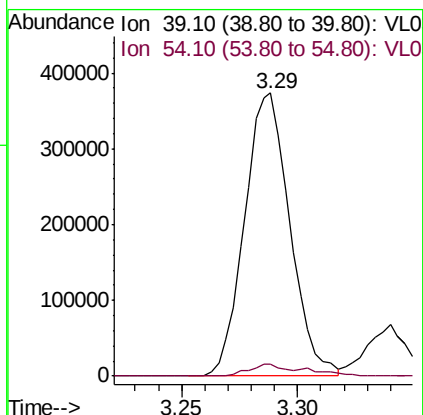
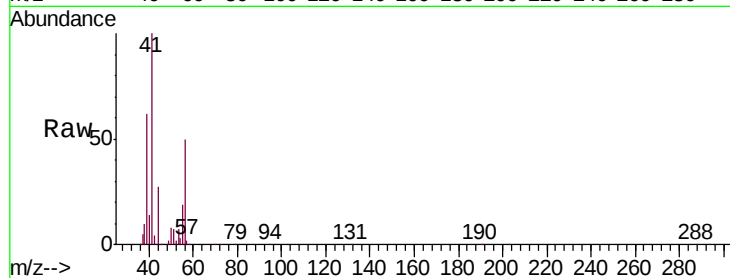




#16
 1,3-Butadiene
 Concen: 8.896 ppbv
 RT: 3.29 min Scan# 156
 Delta R.T. -0.02 min
 Lab File: VL034431.D
 Acq: 2 Dec 2019 18:12

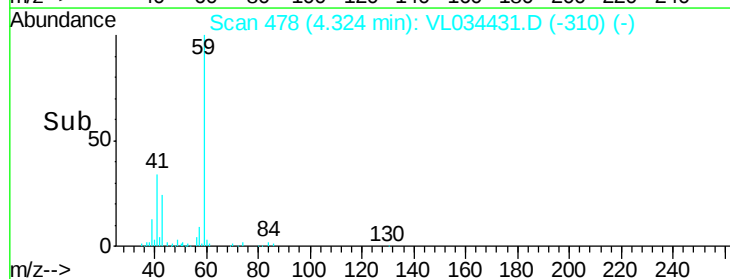
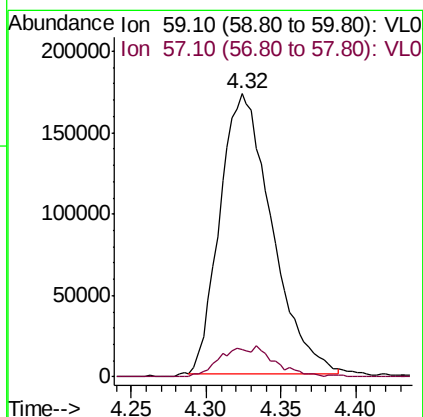
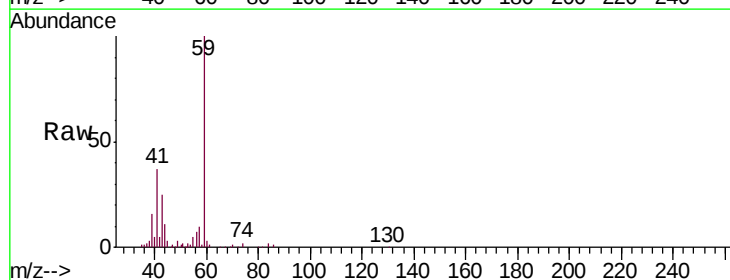
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-3

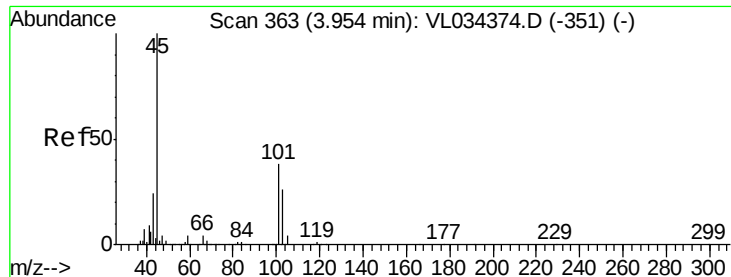
Tgt Ion: 39 Resp: 505203
 Ion Ratio Lower Upper
 39 100
 54 5.4 64.7 97.1#



#17
 tert-Butyl alcohol
 Concen: 3.803 ppbv
 RT: 4.32 min Scan# 478
 Delta R.T. 0.04 min
 Lab File: VL034431.D
 Acq: 2 Dec 2019 18:12

Tgt Ion: 59 Resp: 416724
 Ion Ratio Lower Upper
 59 100
 57 11.5 8.8 13.2

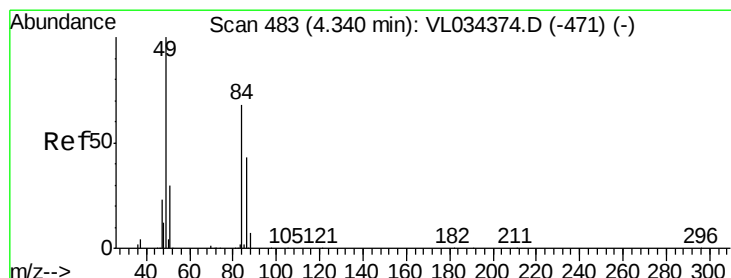
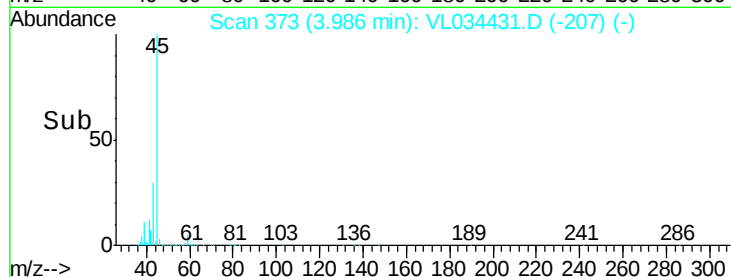
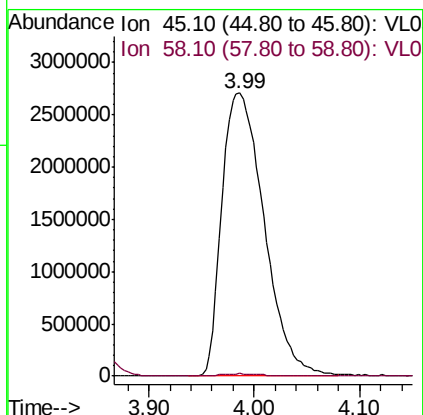
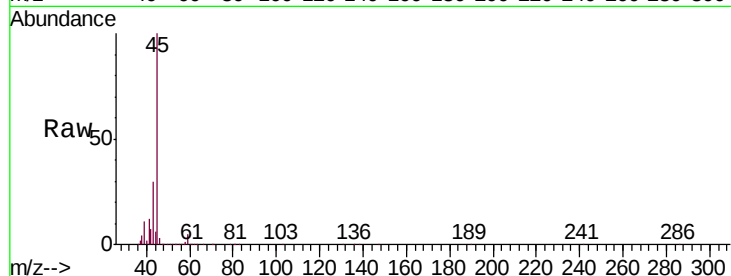




#19
Isopropyl Alcohol
Concen: 90.020 ppbv
RT: 3.99 min Scan# 373
Delta R.T. 0.03 min
Lab File: VL034431.D
Acq: 2 Dec 2019 18:12

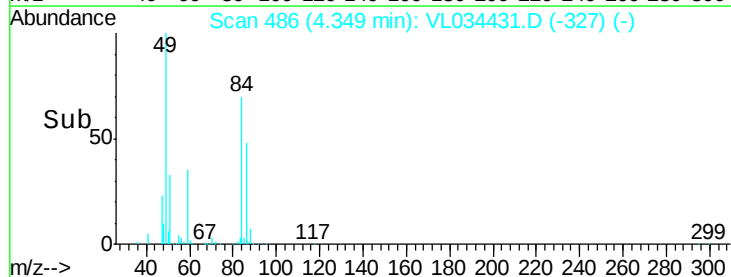
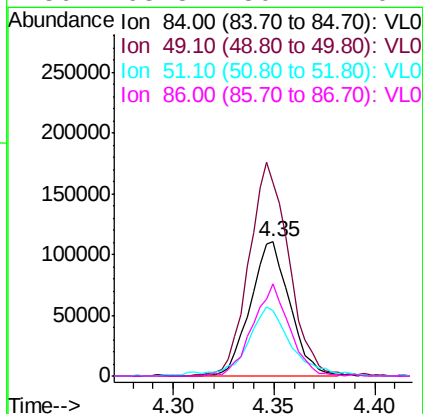
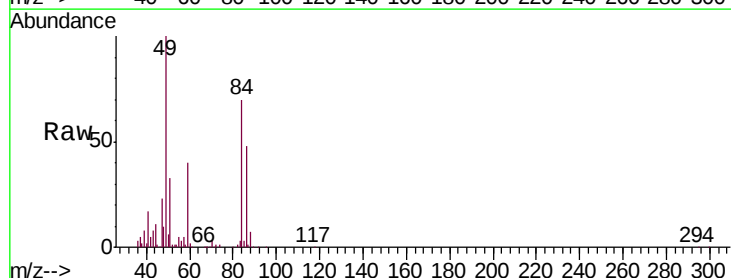
Instrument :
MSVOA_L
ClientSampleId :
SV-3

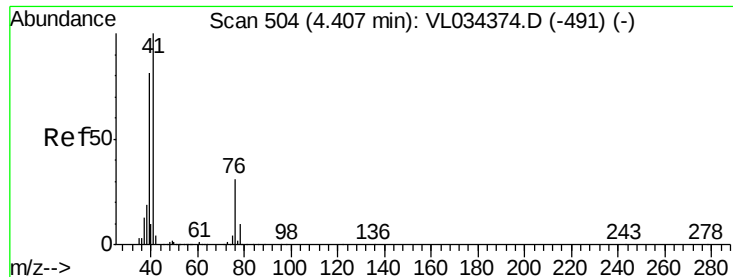
Tgt Ion: 45 Resp: 7522300
Ion Ratio Lower Upper
45 100
58 0.8 1.3 1.9#



#20
Methylene Chloride
Concen: 3.271 ppbv
RT: 4.35 min Scan# 486
Delta R.T. 0.01 min
Lab File: VL034431.D
Acq: 2 Dec 2019 18:12

Tgt Ion: 84 Resp: 151221
Ion Ratio Lower Upper
84 100
49 143.3 116.8 175.2
51 45.5 35.6 53.4
86 68.8 50.7 76.1





#21

Allyl Chloride

Concen: 0.345 ppbv

RT: 4.37 min Scan# 492

Delta R.T. -0.04 min

Lab File: VL034431.D

Acq: 2 Dec 2019 18:12

Instrument :

MSVOA_L

ClientSampled :

SV-3

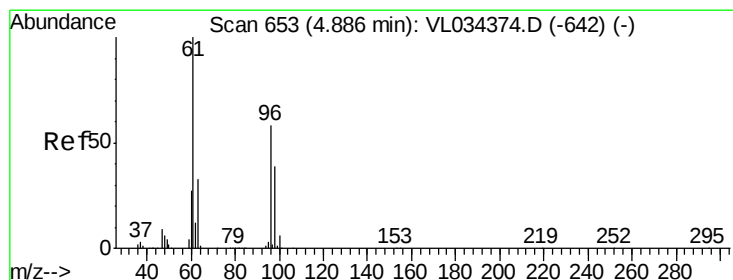
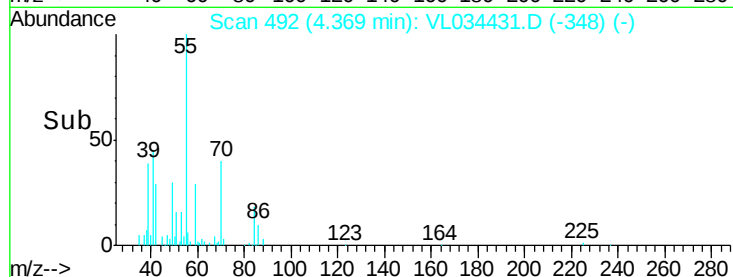
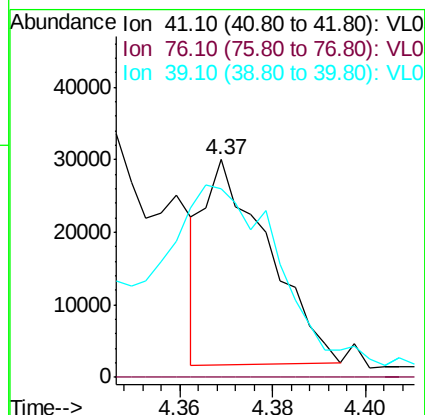
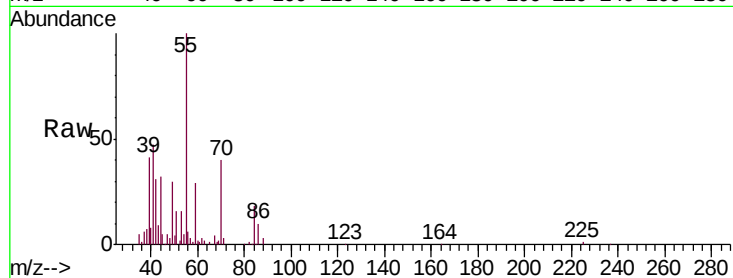
Tgt Ion: 41 Resp: 26985

Ion Ratio Lower Upper

41 100

76 0.0 24.2 36.2#

39 162.7 66.9 100.3#



#22

trans-1,2-Dichloroethene

Concen: 5.137 ppbv

RT: 4.90 min Scan# 656

Delta R.T. 0.01 min

Lab File: VL034431.D

Acq: 2 Dec 2019 18:12

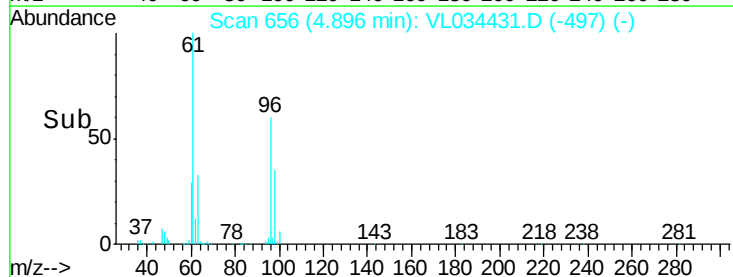
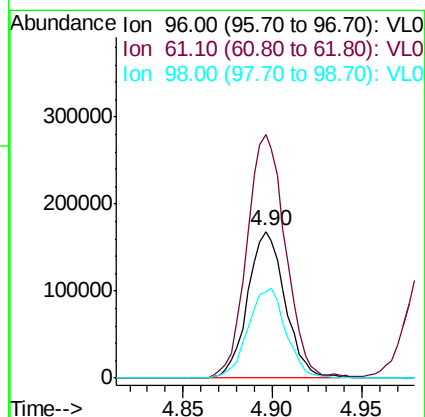
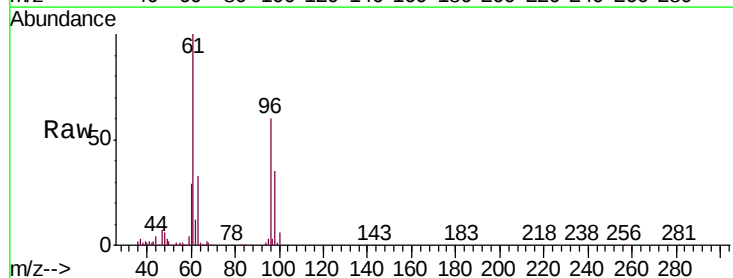
Tgt Ion: 96 Resp: 246595

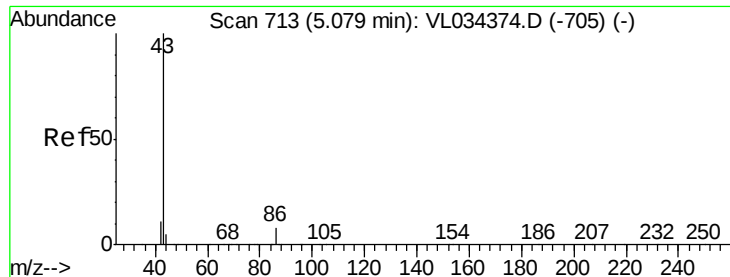
Ion Ratio Lower Upper

96 100

61 165.7 137.9 206.9

98 58.7 53.5 80.3





#23

Vinyl Acetate

Concen: 2.220 ppbv

RT: 5.11 min Scan# 723

Delta R.T. 0.03 min

Lab File: VL034431.D

Acq: 2 Dec 2019 18:12

Instrument :

MSVOA_L

ClientSampleId :

SV-3

Tgt Ion: 43 Resp: 378120

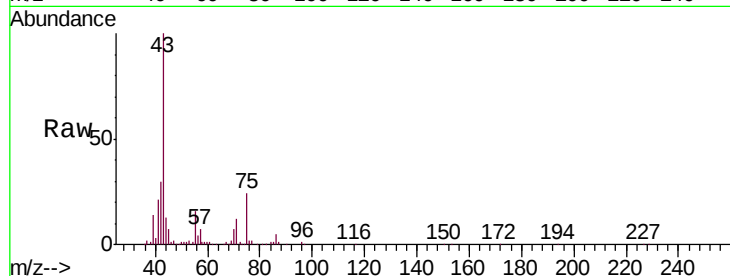
Ion Ratio Lower Upper

43 100

86 5.5 5.8 8.6#

42 29.4 8.9 13.3#

44 6.1 4.0 6.0#

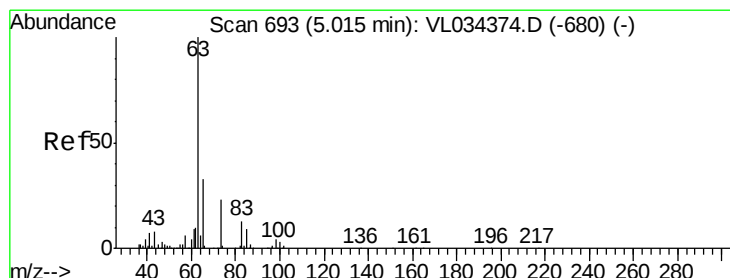
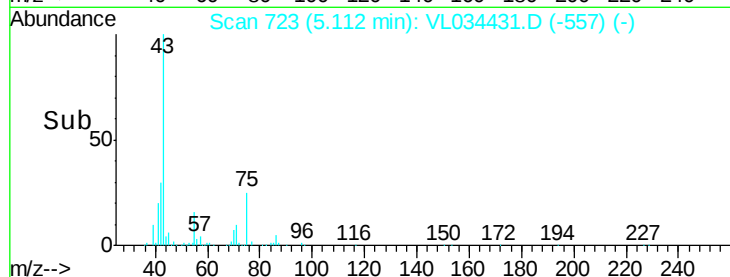
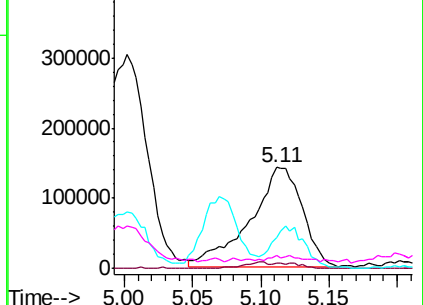


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 1.296 ppbv

RT: 5.02 min Scan# 696

Delta R.T. 0.01 min

Lab File: VL034431.D

Acq: 2 Dec 2019 18:12

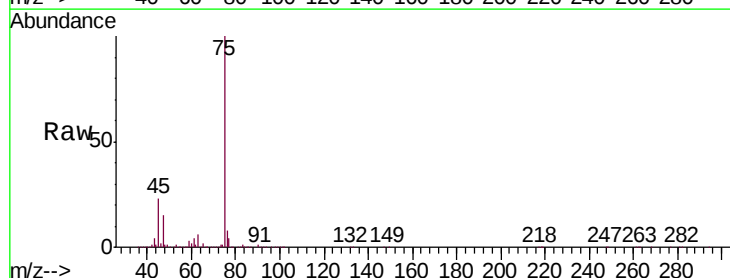
Tgt Ion: 63 Resp: 169510

Ion Ratio Lower Upper

63 100

98 3.4 1.9 5.7

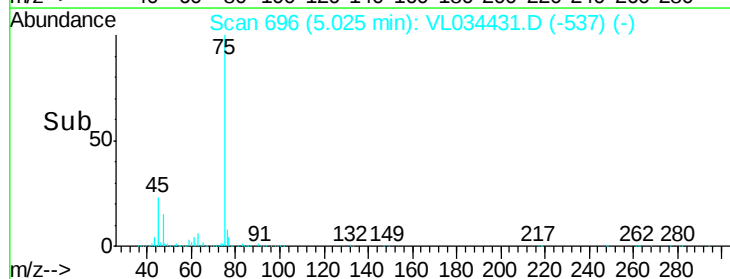
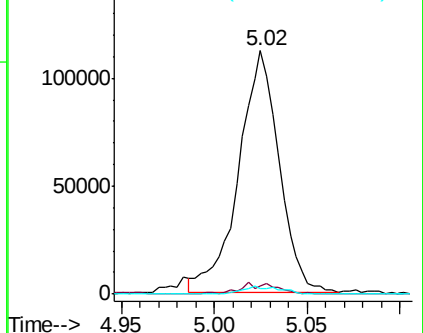
100 2.2 1.4 4.0

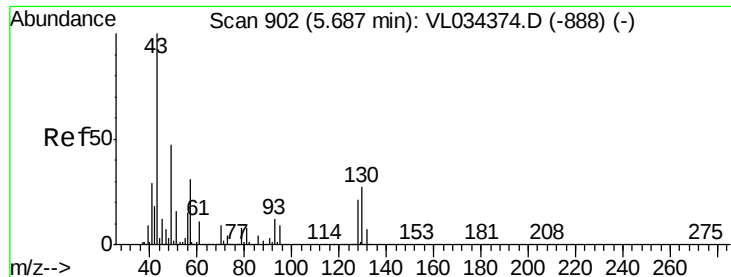


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

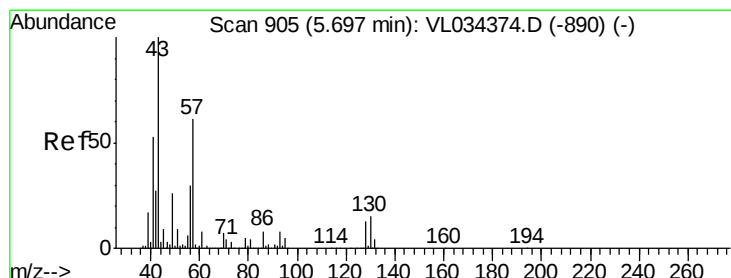
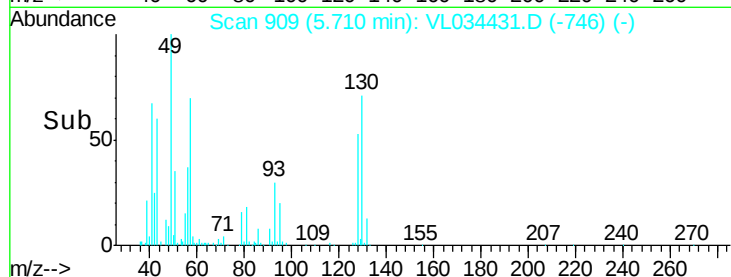
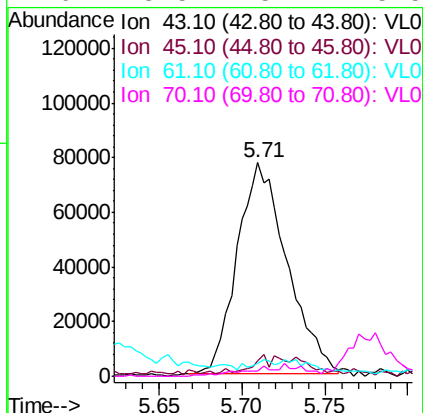
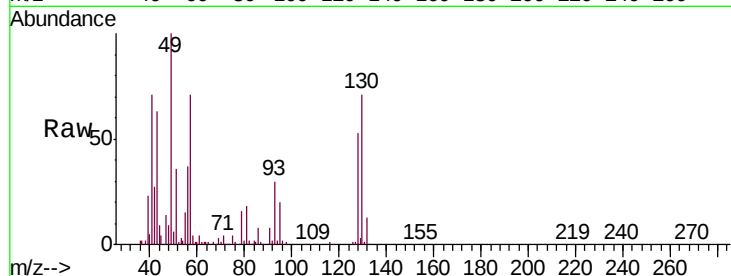




#25
Ethyl Acetate
Concen: 0.694 ppbv
RT: 5.71 min Scan# 909
Delta R.T. 0.02 min
Lab File: VL034431.D
Acq: 2 Dec 2019 18:12

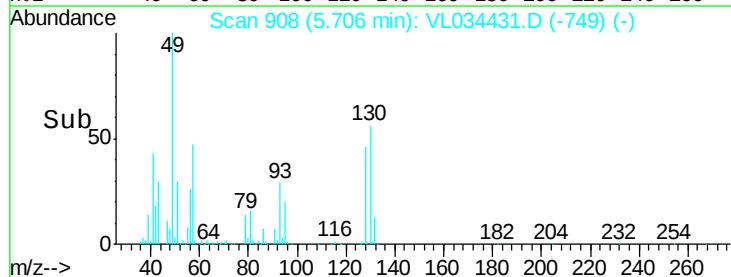
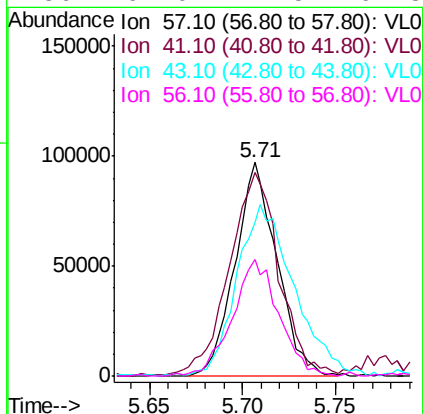
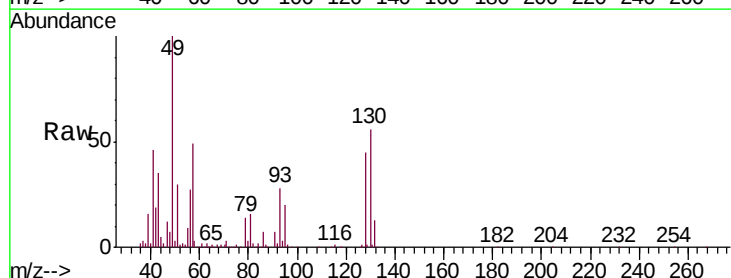
Instrument :
MSVOA_L
ClientSampleId :
SV-3

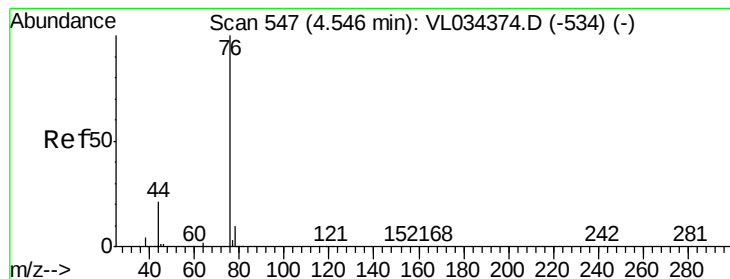
Tgt Ion:	43	Resp:	161468
Ion	Ratio	Lower	Upper
43	100		
45	10.1	8.2	12.4
61	0.0	7.5	11.3#
70	5.5	5.7	8.5#



#26
Hexane
Concen: 1.524 ppbv
RT: 5.71 min Scan# 908
Delta R.T. 0.01 min
Lab File: VL034431.D
Acq: 2 Dec 2019 18:12

Tgt Ion:	57	Resp:	152360
Ion	Ratio	Lower	Upper
57	100		
41	114.0	75.0	112.4#
43	110.3	186.6	279.8#
56	61.0	41.5	62.3





#27

Carbon Disulfide

Concen: 0.281 ppbv

RT: 4.56 min Scan# 550

Delta R.T. 0.01 min

Lab File: VL034431.D

Acq: 2 Dec 2019 18:12

Instrument :

MSVOA_L

ClientSampleId :

SV-3

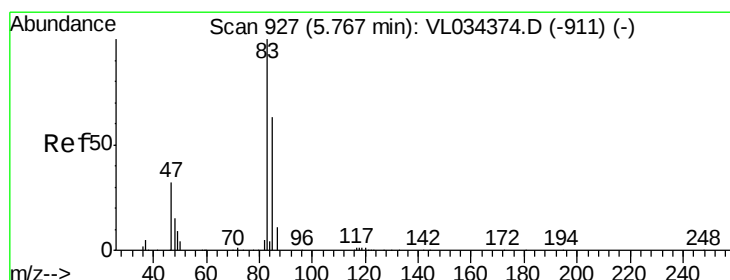
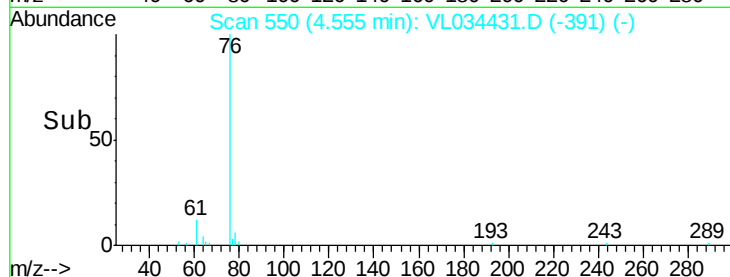
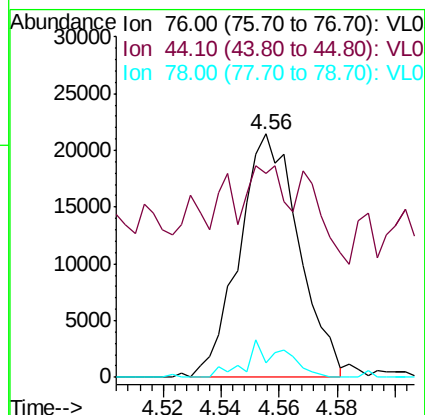
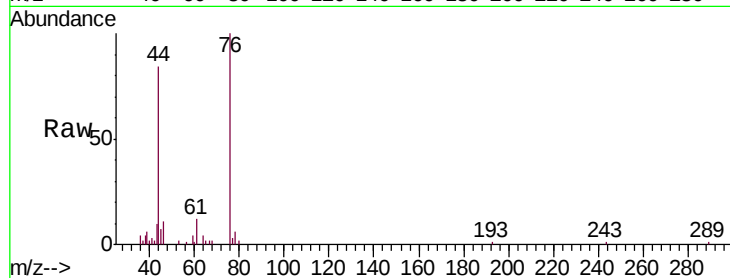
Tgt Ion: 76 Resp: 30612

Ion Ratio Lower Upper

76 100

44 90.7 17.0 25.4#

78 10.0 7.6 11.4



#29

Chloroform

Concen: 14.139 ppbv

RT: 5.78 min Scan# 930

Delta R.T. 0.01 min

Lab File: VL034431.D

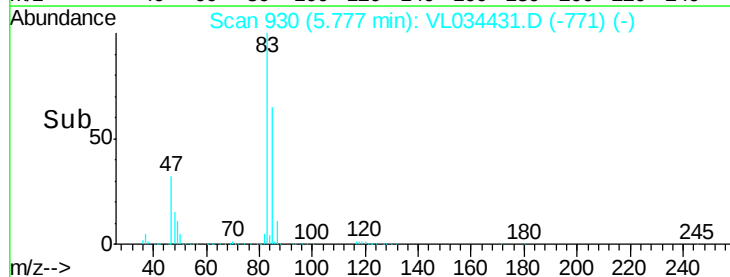
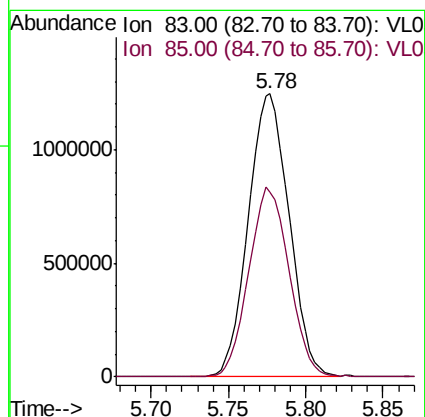
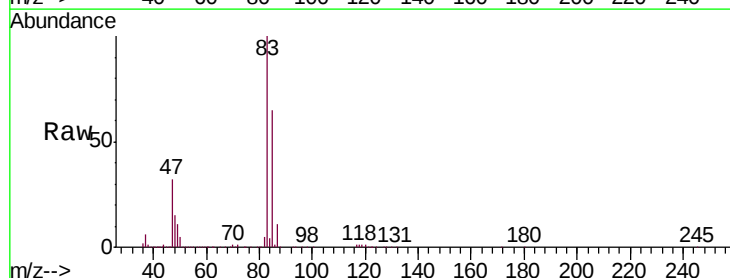
Acq: 2 Dec 2019 18:12

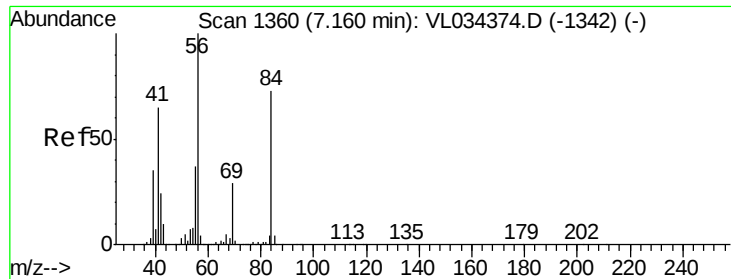
Tgt Ion: 83 Resp: 2288855

Ion Ratio Lower Upper

83 100

85 65.2 50.4 75.6

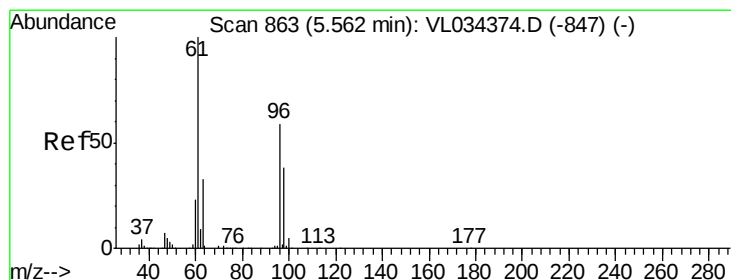
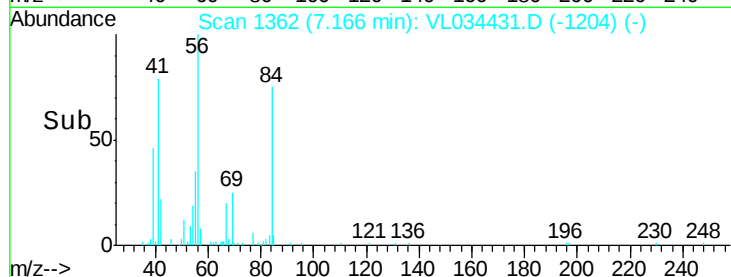
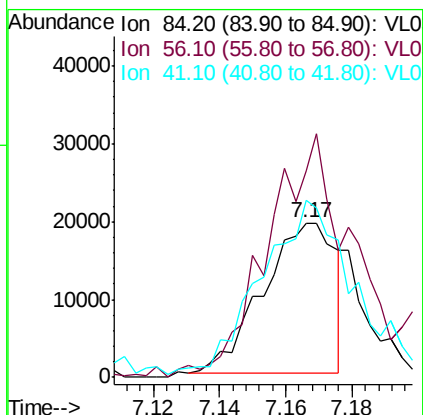
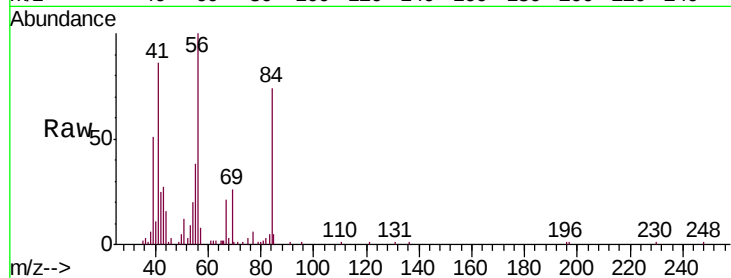




#30
Cyclohexane
Concen: 0.385 ppbv
RT: 7.17 min Scan# 1362
Delta R.T. 0.01 min
Lab File: VL034431.D
Acq: 2 Dec 2019 18:12

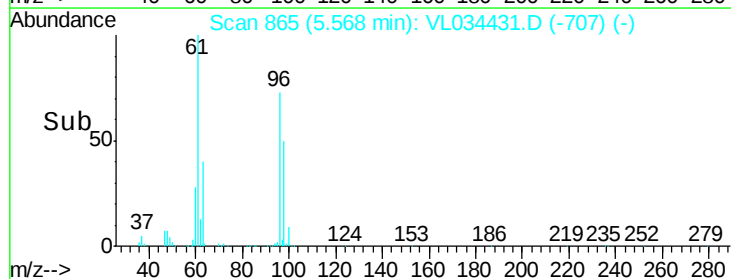
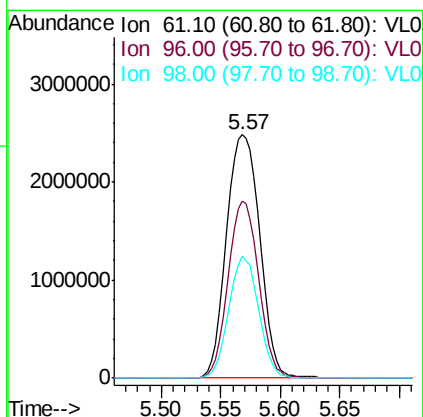
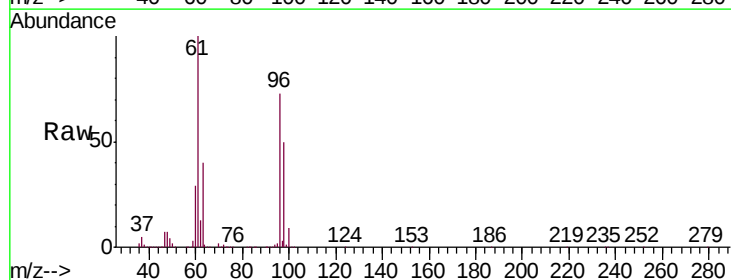
Instrument :
MSVOA_L
ClientSampleId :
SV-3

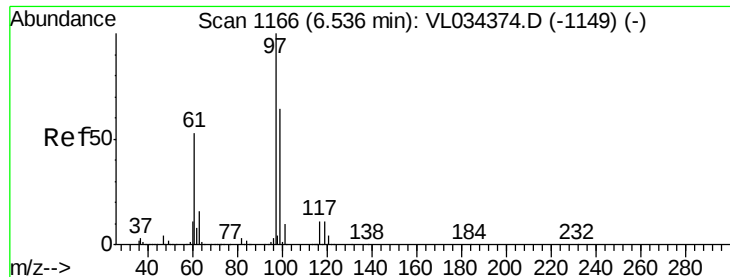
Tgt Ion: 84 Resp: 29115
Ion Ratio Lower Upper
84 100
56 191.0 112.6 169.0#
41 147.1 73.4 110.2#



#31
cis-1,2-Dichloroethene
Concen: 46.906 ppbv
RT: 5.57 min Scan# 865
Delta R.T. 0.01 min
Lab File: VL034431.D
Acq: 2 Dec 2019 18:12

Tgt Ion: 61 Resp: 4845325
Ion Ratio Lower Upper
61 100
96 72.9 47.4 71.2#
98 49.9 30.6 45.8#





#32

1,1,1-Trichloroethane

Concen: 15.078 ppbv

RT: 6.55 min Scan# 1169

Delta R.T. 0.01 min

Lab File: VL034431.D

Acq: 2 Dec 2019 18:12

Instrument :

MSVOA_L

ClientSampleId :

SV-3

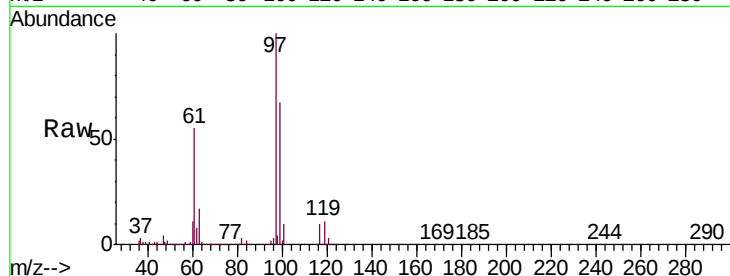
Tgt Ion: 97 Resp: 2288492

Ion Ratio Lower Upper

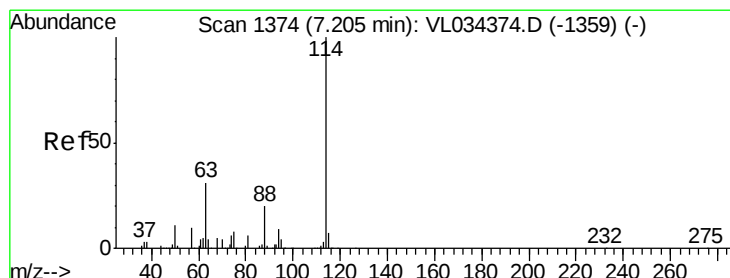
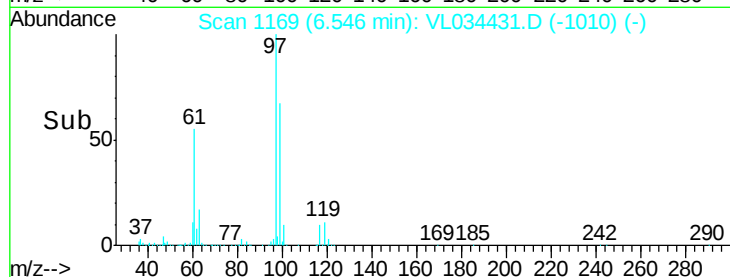
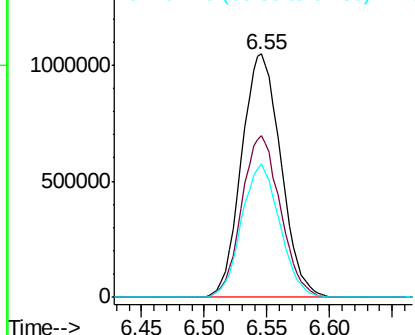
97 100

99 65.2 52.3 78.5

61 53.2 43.7 65.5



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.23 min Scan# 1381

Delta R.T. 0.02 min

Lab File: VL034431.D

Acq: 2 Dec 2019 18:12

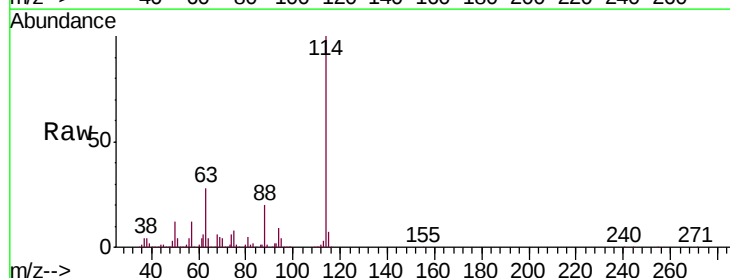
Tgt Ion: 114 Resp: 1799461

Ion Ratio Lower Upper

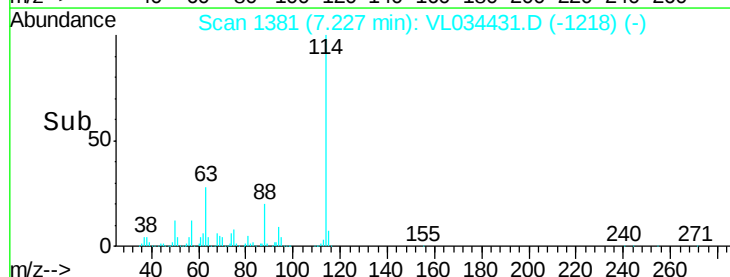
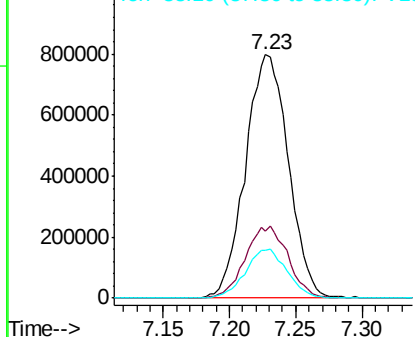
114 100

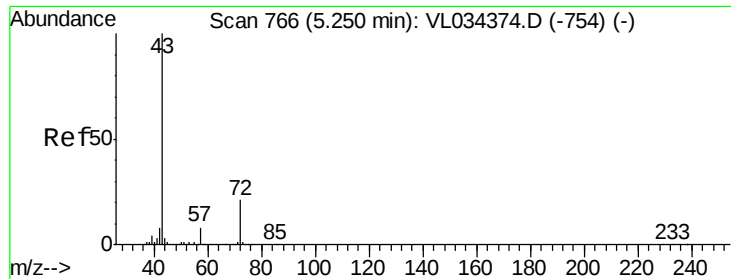
63 29.2 24.2 36.4

88 19.5 15.9 23.9



Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0

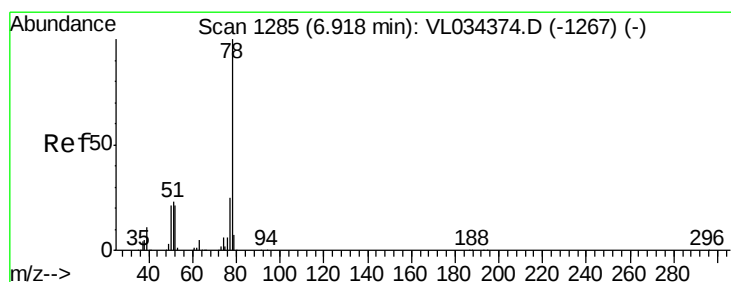
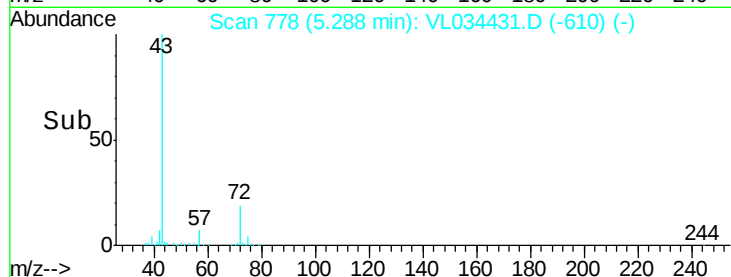
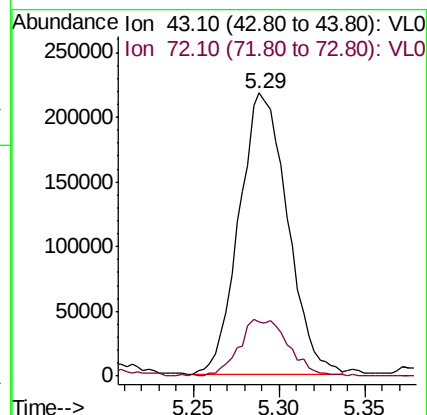
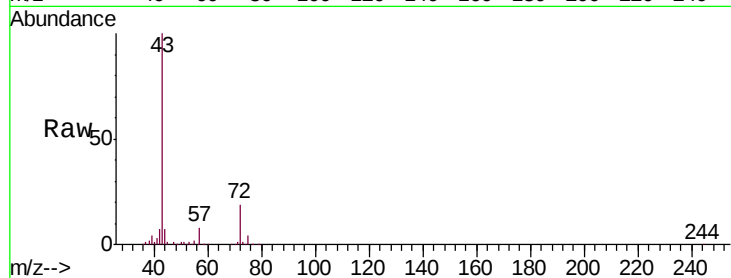




#34
2-Butanone
Concen: 2.869 ppbv
RT: 5.29 min Scan# 778
Delta R.T. 0.04 min
Lab File: VL034431.D
Acq: 2 Dec 2019 18:12

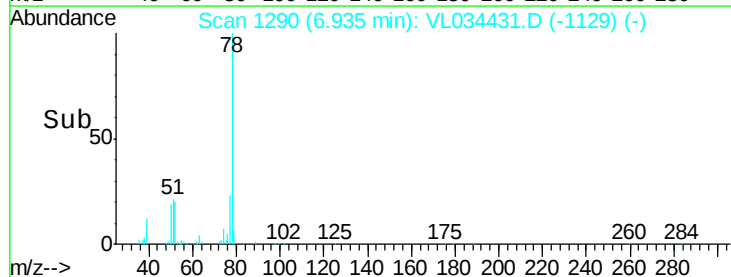
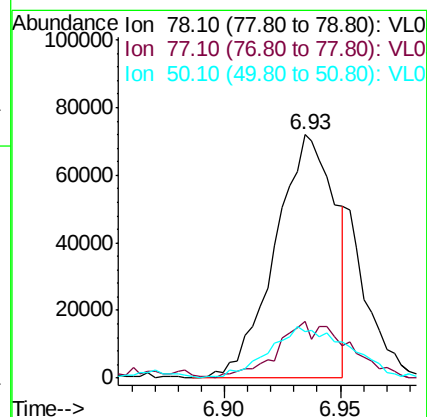
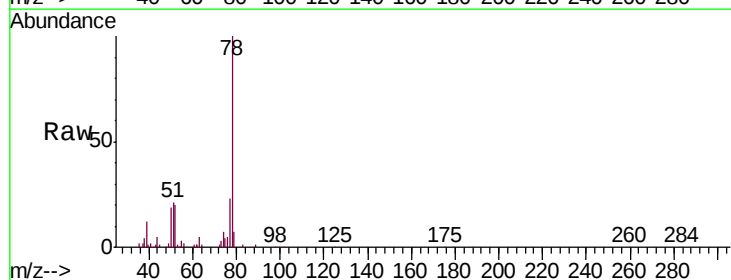
Instrument :
MSVOA_L
ClientSampleId :
SV-3

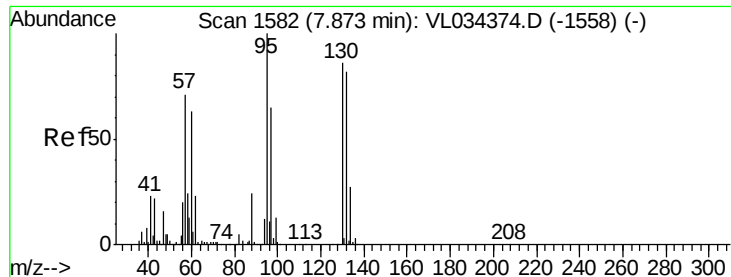
Tgt Ion: 43 Resp: 424974
Ion Ratio Lower Upper
43 100
72 20.8 17.0 25.6



#36
Benzene
Concen: 0.714 ppbv
RT: 6.93 min Scan# 1290
Delta R.T. 0.02 min
Lab File: VL034431.D
Acq: 2 Dec 2019 18:12

Tgt Ion: 78 Resp: 128387
Ion Ratio Lower Upper
78 100
77 22.0 20.2 30.4
50 18.3 17.1 25.7

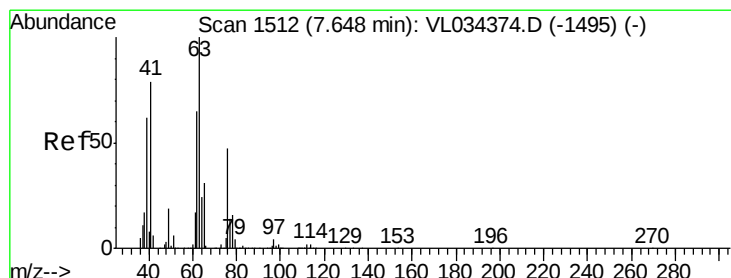
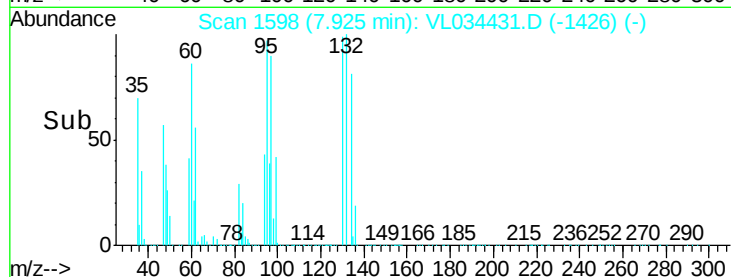
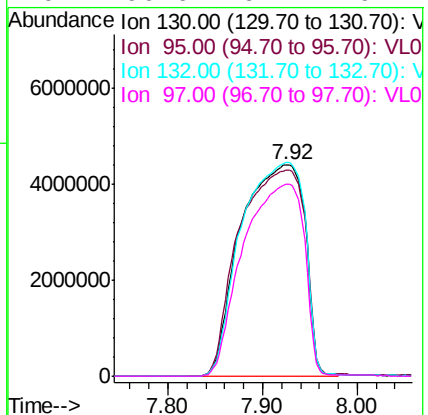
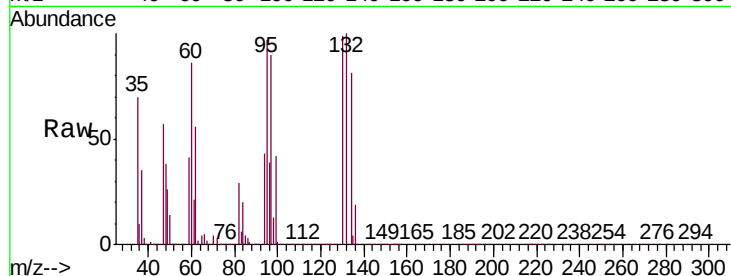




#38
 Trichloroethene
 Concen: 280.016 ppbv
 RT: 7.92 min Scan# 1598
 Delta R.T. 0.05 min
 Lab File: VL034431.D
 Acq: 2 Dec 2019 18:12

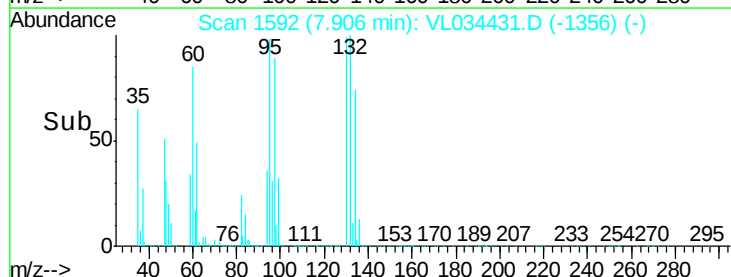
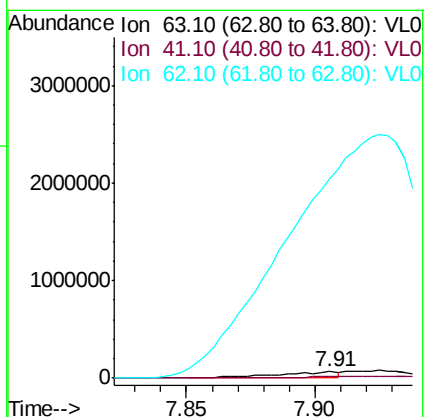
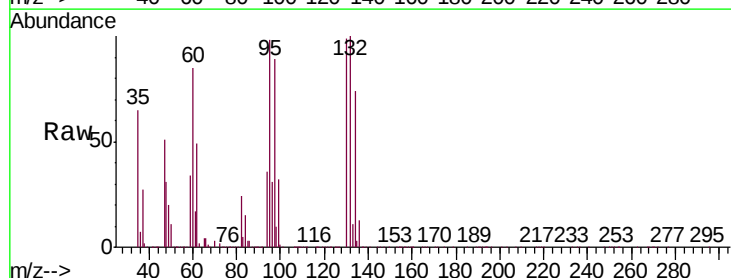
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-3

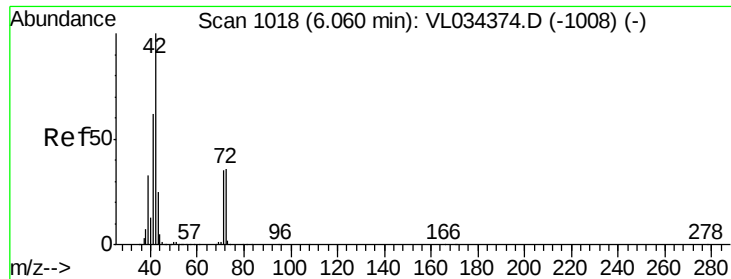
Tgt Ion:130 Resp:20670383
 Ion Ratio Lower Upper
 130 100
 95 97.6 93.4 140.0
 132 100.9 76.4 114.6
 97 90.6 61.1 91.7



#39
 1,2-Dichloropropane
 Concen: 1.489 ppbv
 RT: 7.91 min Scan# 1592
 Delta R.T. 0.26 min
 Lab File: VL034431.D
 Acq: 2 Dec 2019 18:12

Tgt Ion: 63 Resp: 103193
 Ion Ratio Lower Upper
 63 100
 41 19.1 63.1 94.7#
 62 3208.7 52.3 78.5#

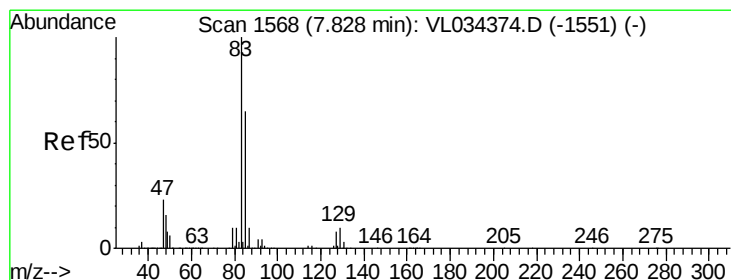
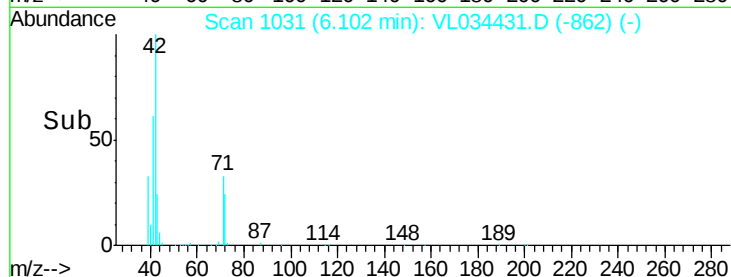
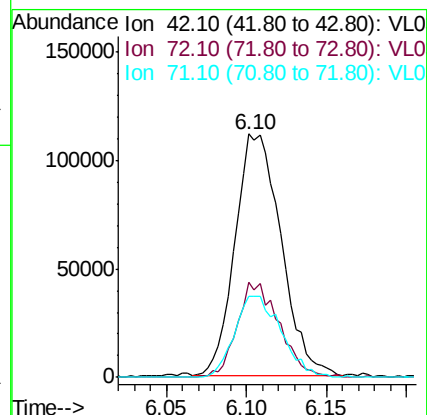
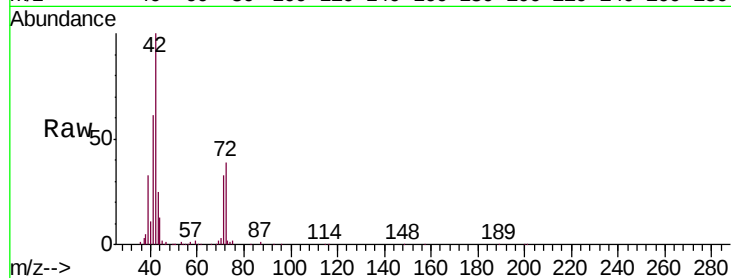




#41
Tetrahydrofuran
Concen: 2.651 ppbv
RT: 6.10 min Scan# 1031
Delta R.T. 0.04 min
Lab File: VL034431.D
Acq: 2 Dec 2019 18:12

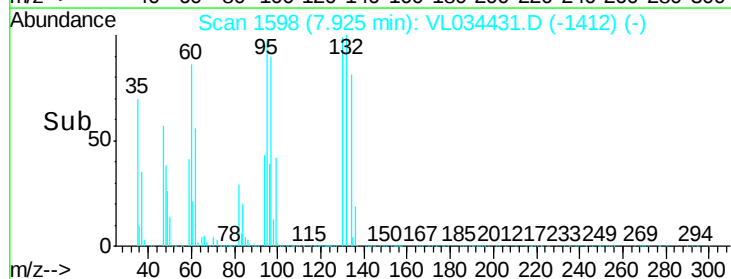
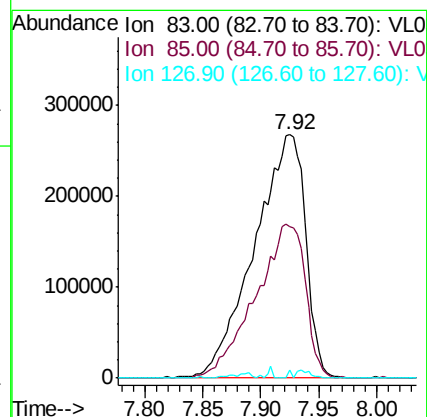
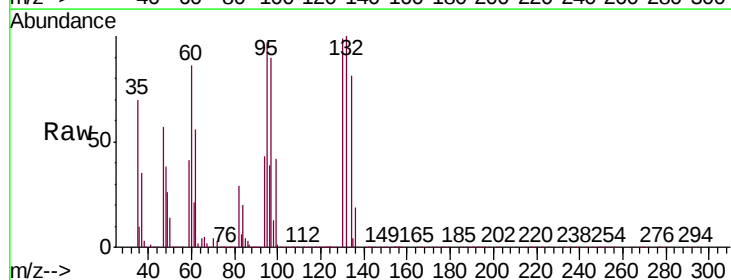
Instrument :
MSVOA_L
ClientSampled :
SV-3

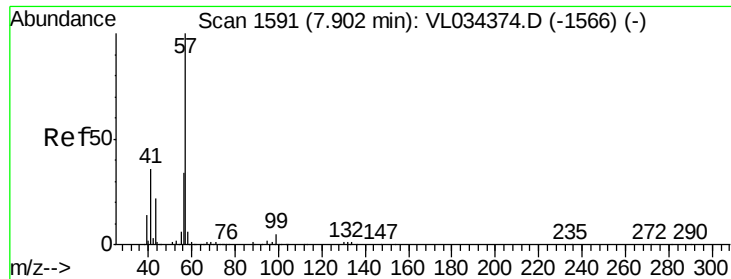
Tgt Ion: 42 Resp: 220243
Ion Ratio Lower Upper
42 100
72 36.1 30.2 45.4
71 34.0 29.4 44.2



#42
Bromodichloromethane
Concen: 4.855 ppbv
RT: 7.92 min Scan# 1598
Delta R.T. 0.10 min
Lab File: VL034431.D
Acq: 2 Dec 2019 18:12

Tgt Ion: 83 Resp: 811496
Ion Ratio Lower Upper
83 100
85 62.2 52.3 78.5
127 3.5 6.1 9.1#

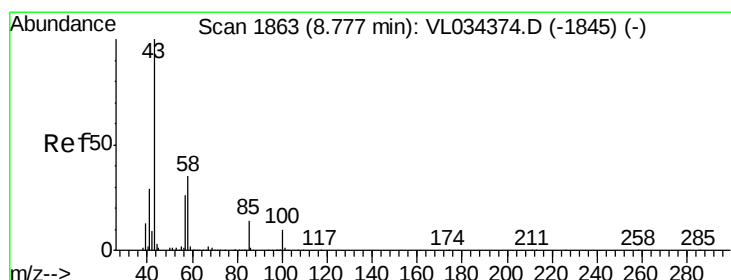
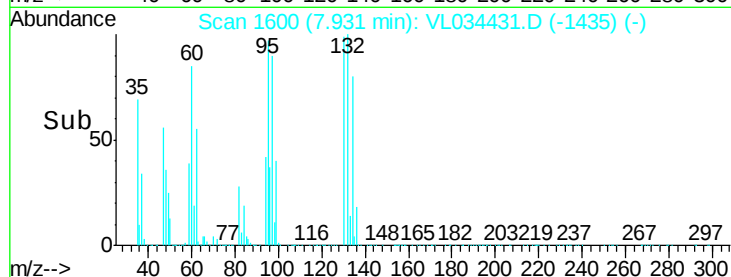
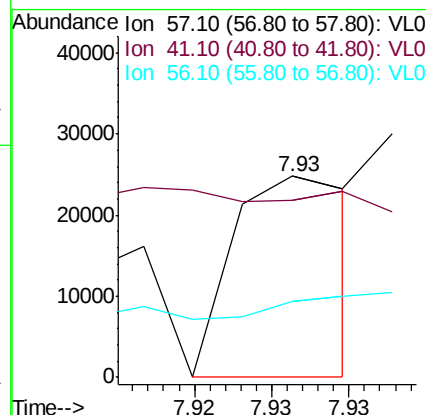
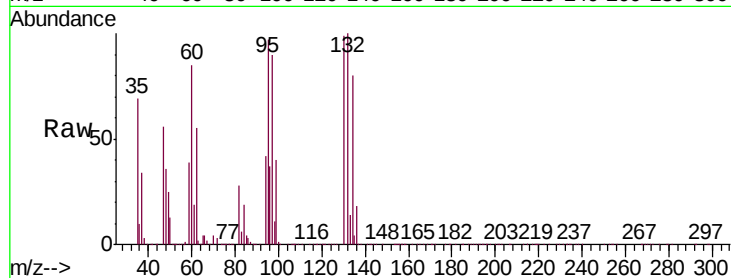




#44
 2,2,4-Trimethylpentane
 Concen: 0.041 ppbv
 RT: 7.93 min Scan# 1600
 Delta R.T. 0.03 min
 Lab File: VL034431.D
 Acq: 2 Dec 2019 18:12

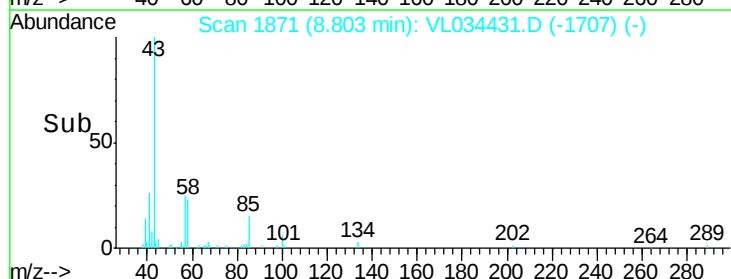
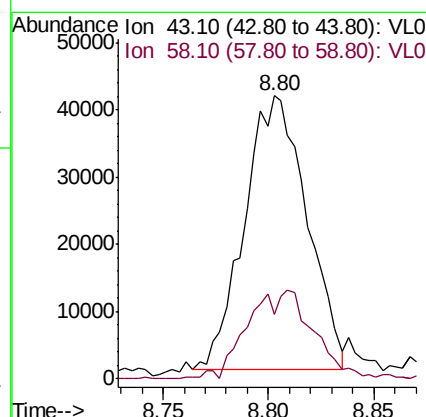
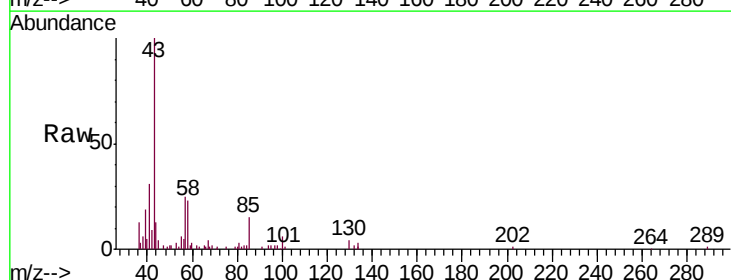
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-3

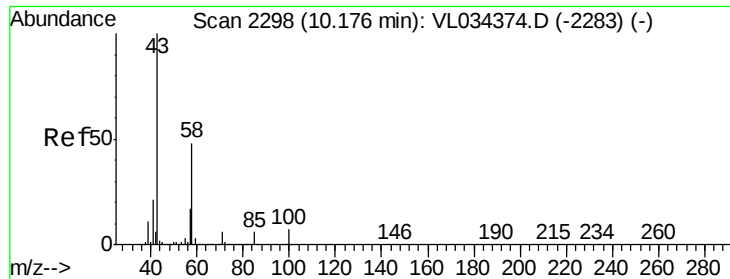
Tgt Ion: 57 Resp: 13382
 Ion Ratio Lower Upper
 57 100
 41 0.0 28.6 42.8#
 56 0.0 25.3 37.9#



#50
 4-Methyl-2-Pentanone
 Concen: 0.388 ppbv
 RT: 8.80 min Scan# 1871
 Delta R.T. 0.03 min
 Lab File: VL034431.D
 Acq: 2 Dec 2019 18:12

Tgt Ion: 43 Resp: 83254
 Ion Ratio Lower Upper
 43 100
 58 35.4 27.9 41.9

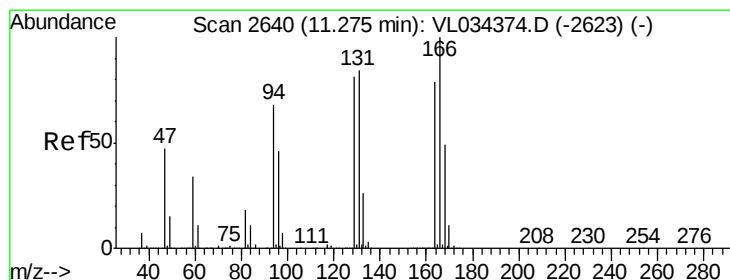
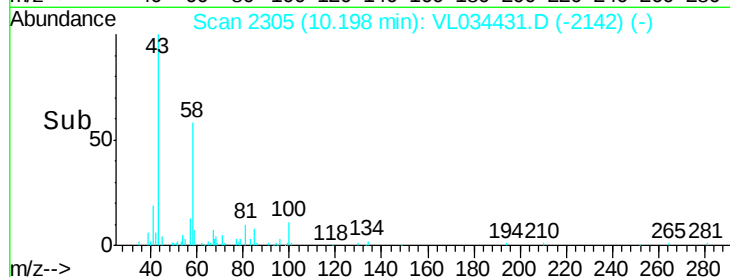
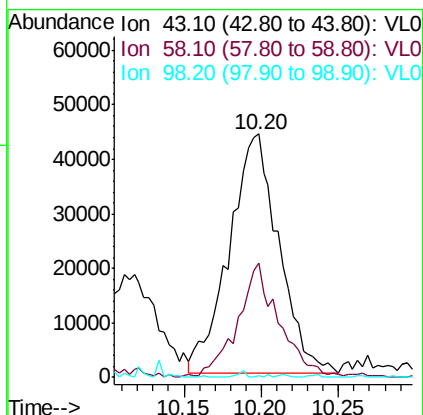
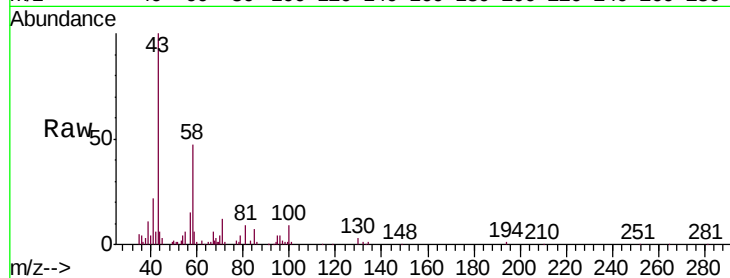




#51
2-Hexanone
Concen: 0.544 ppbv
RT: 10.20 min Scan# 2305
Delta R.T. 0.02 min
Lab File: VL034431.D
Acq: 2 Dec 2019 18:12

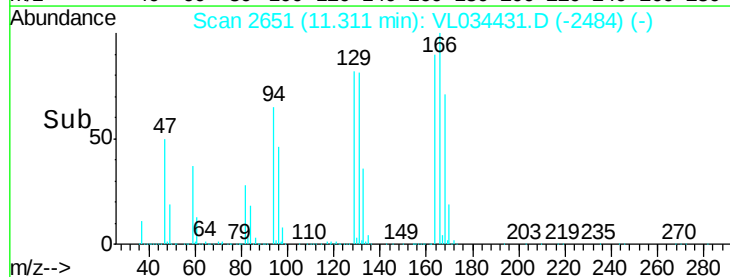
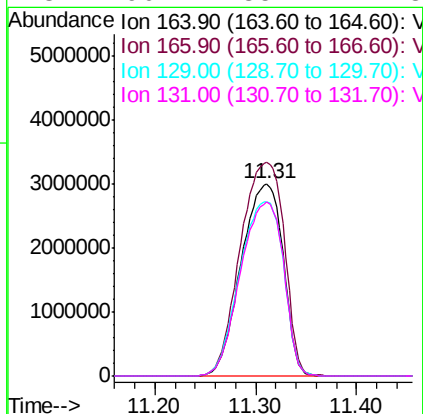
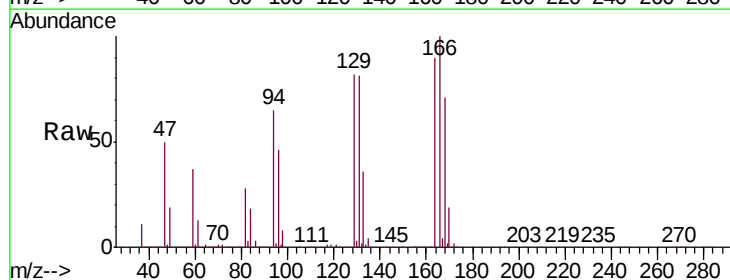
Instrument :
MSVOA_L
ClientSampled :
SV-3

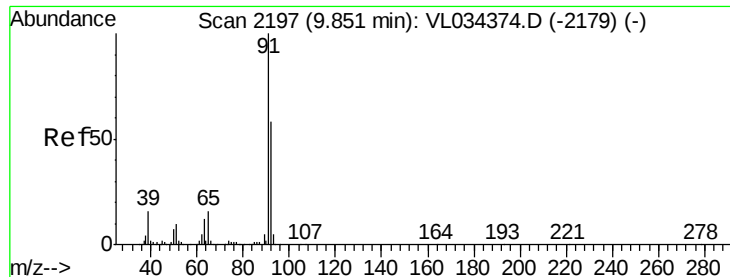
Tgt Ion: 43 Resp: 97575
Ion Ratio Lower Upper
43 100
58 40.7 38.2 57.4
98 0.5 0.2 0.2#



#52
Tetrachloroethene
Concen: 110.947 ppbv
RT: 11.31 min Scan# 2651
Delta R.T. 0.04 min
Lab File: VL034431.D
Acq: 2 Dec 2019 18:12

Tgt Ion: 164 Resp: 8635070
Ion Ratio Lower Upper
164 100
166 111.0 101.7 152.5
129 90.5 82.6 123.8
131 90.4 85.2 127.8





#53

Toluene

Concen: 5.304 ppbv

RT: 9.87 min Scan# 2204

Delta R.T. 0.02 min

Lab File: VL034431.D

Acq: 2 Dec 2019 18:12

Instrument :

MSVOA_L

ClientSampleId :

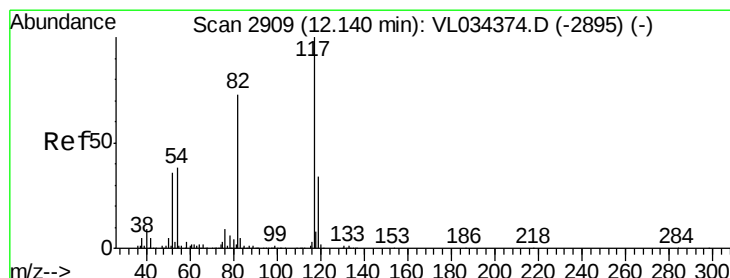
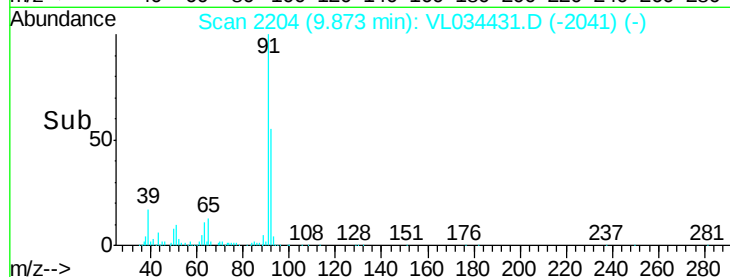
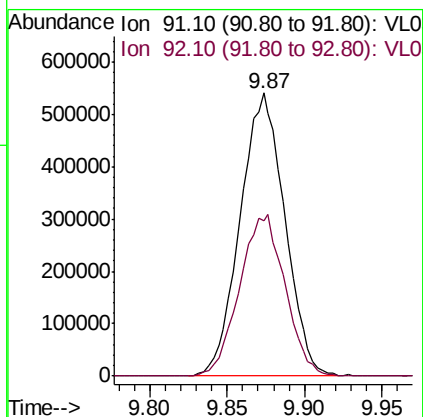
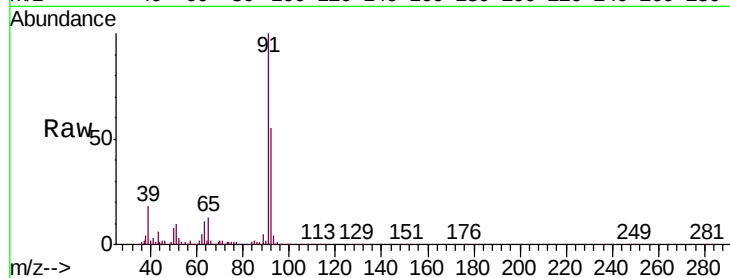
SV-3

Tgt Ion: 91 Resp: 1083784

Ion Ratio Lower Upper

91 100

92 58.3 47.9 71.9



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.16 min Scan# 2914

Delta R.T. 0.02 min

Lab File: VL034431.D

Acq: 2 Dec 2019 18:12

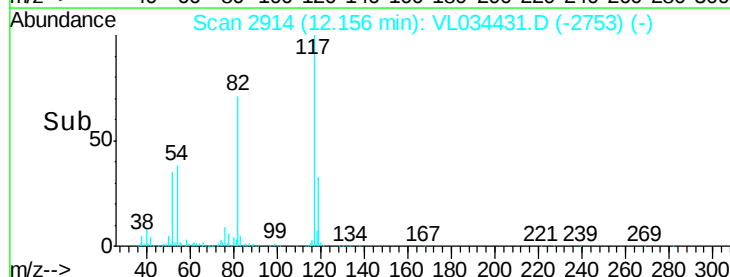
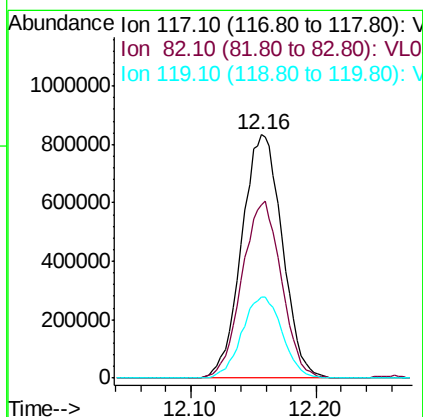
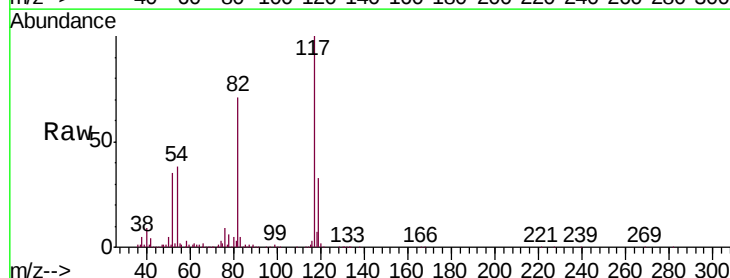
Tgt Ion: 117 Resp: 1870516

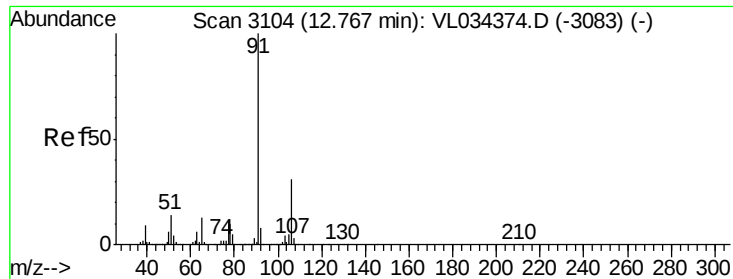
Ion Ratio Lower Upper

117 100

82 70.9 57.5 86.3

119 33.3 25.4 38.2





#58

Ethyl Benzene

Concen: 0.812 ppbv

RT: 12.78 min Scan# 3109

Delta R.T. 0.02 min

Lab File: VL034431.D

Acq: 2 Dec 2019 18:12

Instrument :

MSVOA_L

ClientSampleId :

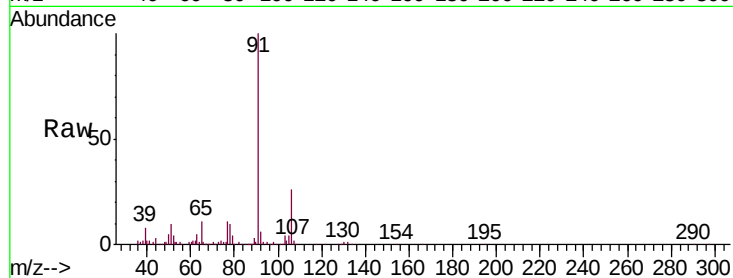
SV-3

Tgt Ion: 91 Resp: 235754

Ion Ratio Lower Upper

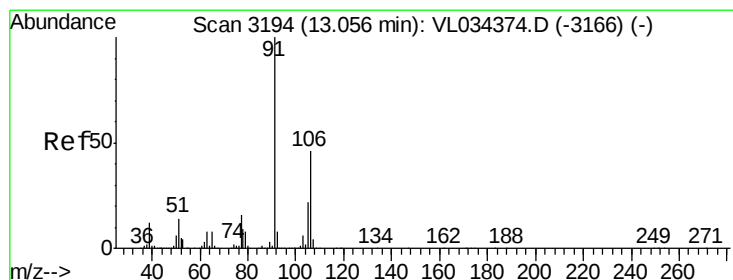
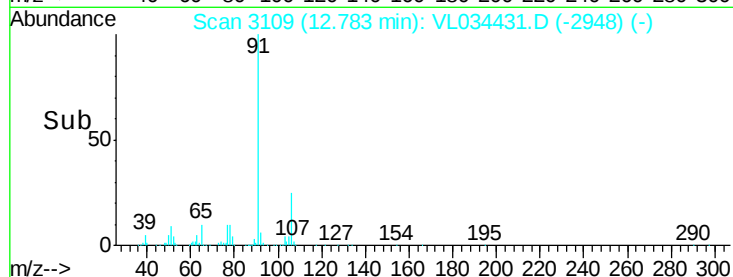
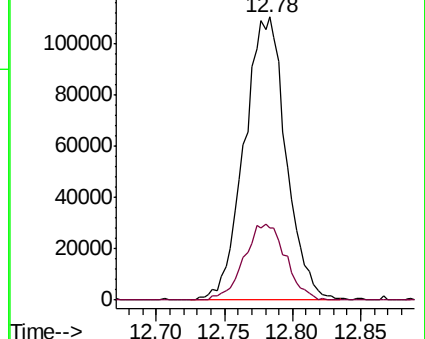
91 100

106 25.6 24.8 37.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.680 ppbv

RT: 13.06 min Scan# 3195

Delta R.T. 0.00 min

Lab File: VL034431.D

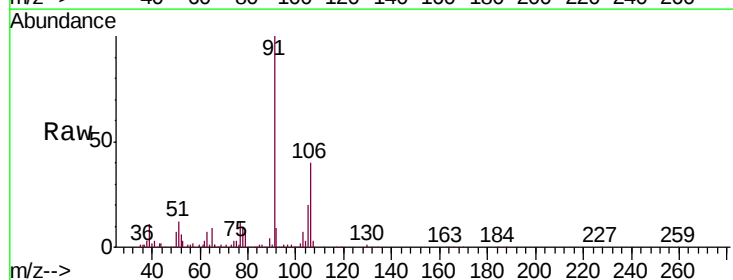
Acq: 2 Dec 2019 18:12

Tgt Ion: 91 Resp: 170678

Ion Ratio Lower Upper

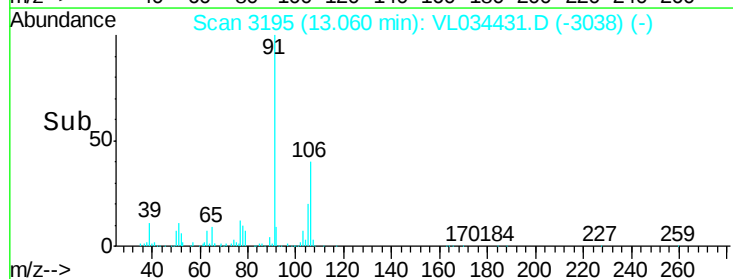
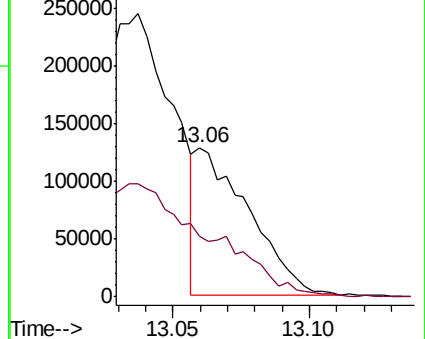
91 100

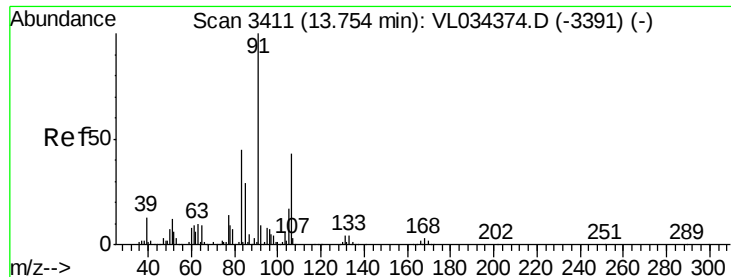
106 0.0 34.6 51.8#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#60

o-Xylene

Concen: 1.035 ppbv

RT: 13.76 min Scan# 3414

Delta R.T. 0.01 min

Lab File: VL034431.D

Acq: 2 Dec 2019 18:12

Instrument :

MSVOA_L

ClientSampleId :

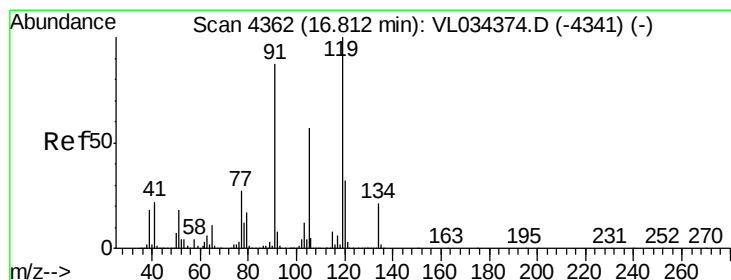
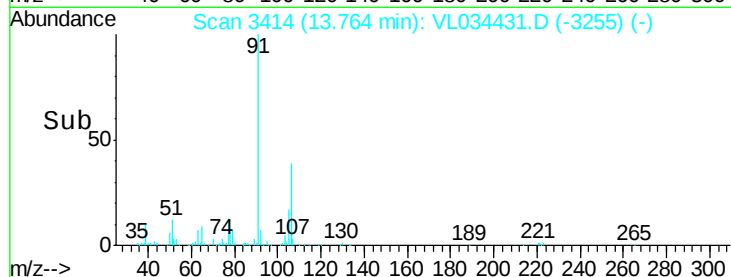
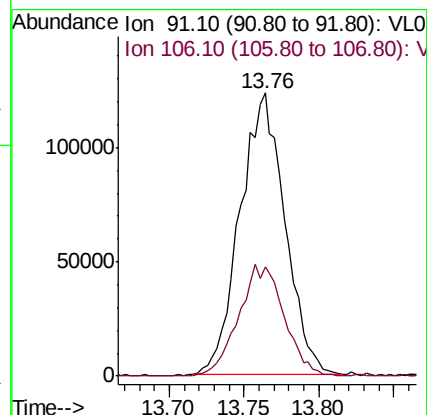
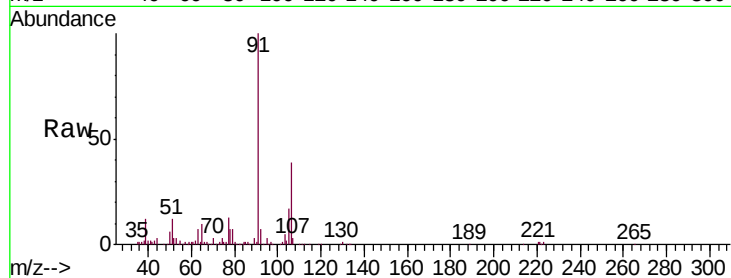
SV-3

Tgt Ion: 91 Resp: 256861

Ion Ratio Lower Upper

91 100

106 40.2 21.3 64.0



#65

tert-Butylbenzene

Concen: 0.063 ppbv

RT: 16.83 min Scan# 4369

Delta R.T. 0.02 min

Lab File: VL034431.D

Acq: 2 Dec 2019 18:12

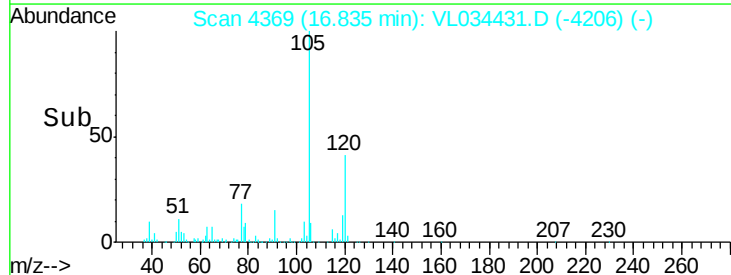
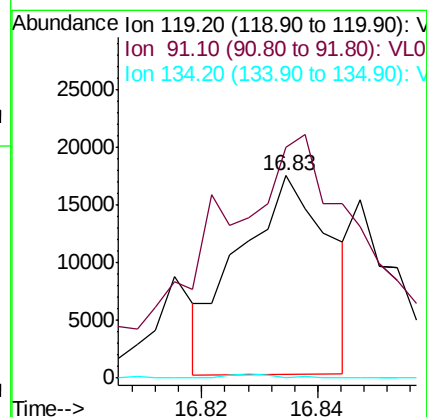
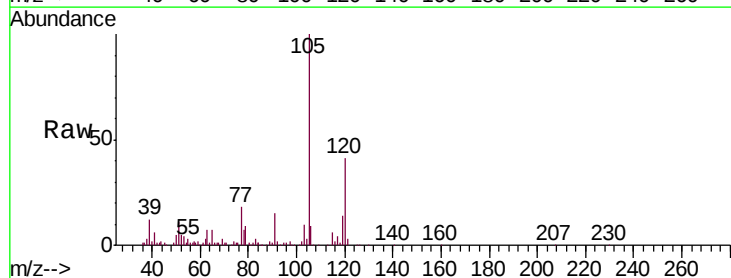
Tgt Ion: 119 Resp: 18573

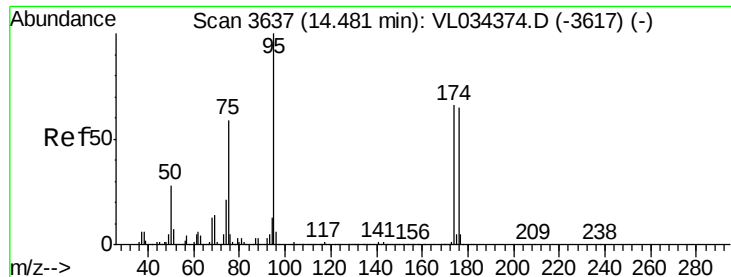
Ion Ratio Lower Upper

119 100

91 230.2 71.6 107.4#

134 0.0 15.9 23.9#

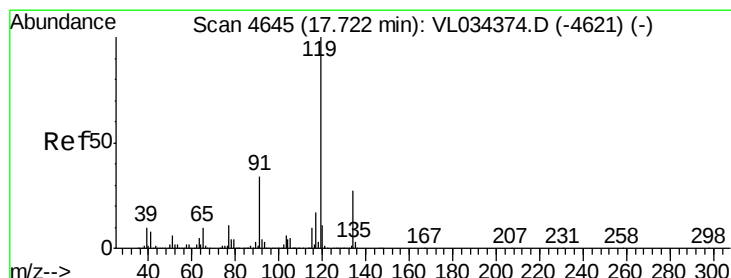
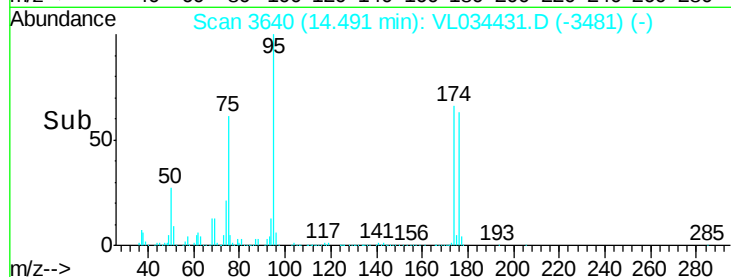
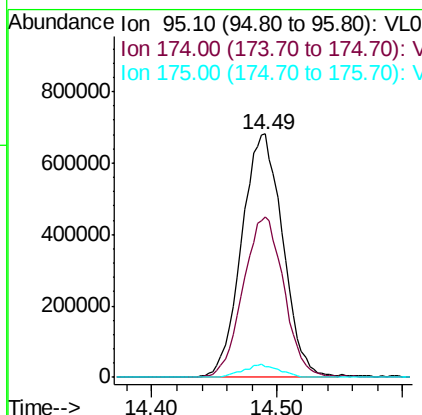
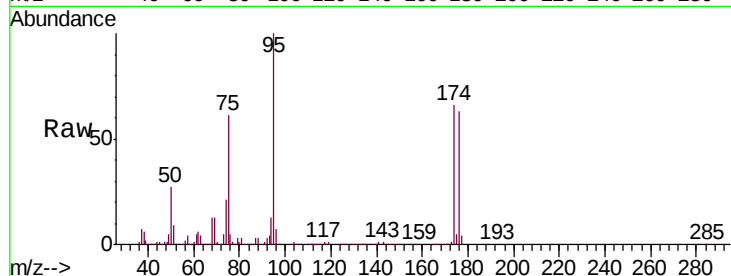




#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.816 ppbv
 RT: 14.49 min Scan# 3640
 Delta R.T. 0.01 min
 Lab File: VL034431.D
 Acq: 2 Dec 2019 18:12

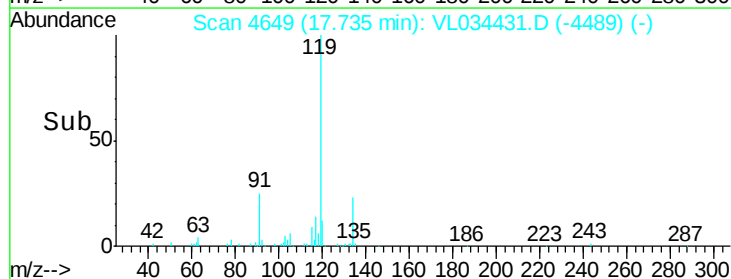
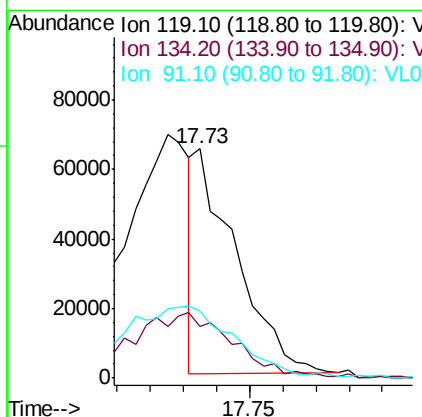
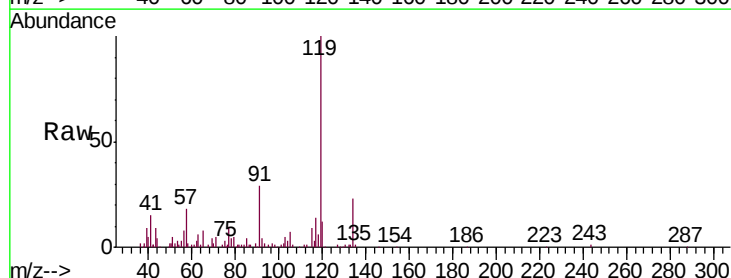
Instrument :
 MSVOA_L
 ClientSampled :
 SV-3

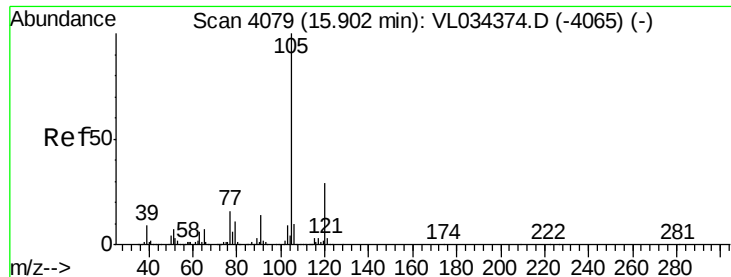
Tgt Ion: 95 Resp: 1544596
 Ion Ratio Lower Upper
 95 100
 174 66.2 52.2 78.2
 175 4.9 3.8 5.8



#69
 p-Isopropyltoluene
 Concen: 0.163 ppbv
 RT: 17.73 min Scan# 4649
 Delta R.T. 0.01 min
 Lab File: VL034431.D
 Acq: 2 Dec 2019 18:12

Tgt Ion: 119 Resp: 55759
 Ion Ratio Lower Upper
 119 100
 134 76.7 20.6 31.0#
 91 103.4 26.3 39.5#





#72

4-Ethyltoluene

Concen: 0.343 ppbv

RT: 15.91 min Scan# 4082

Delta R.T. 0.01 min

Lab File: VL034431.D

Acq: 2 Dec 2019 18:12

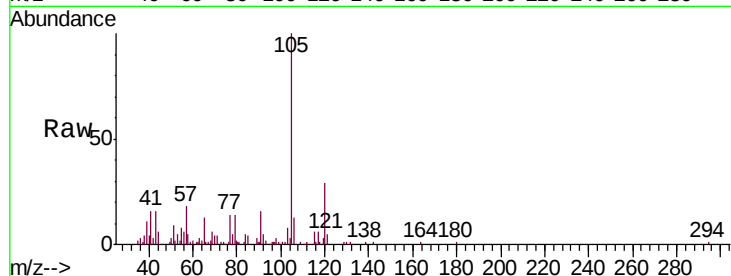
Instrument :

MSVOA_L

ClientSampleId :

SV-3

Tgt Ion:	105	Resp:	98276
Ion	Ratio	Lower	Upper
105	100		
120	29.3	23.5	35.3
91	16.6	11.4	17.0
77	18.1	12.6	19.0

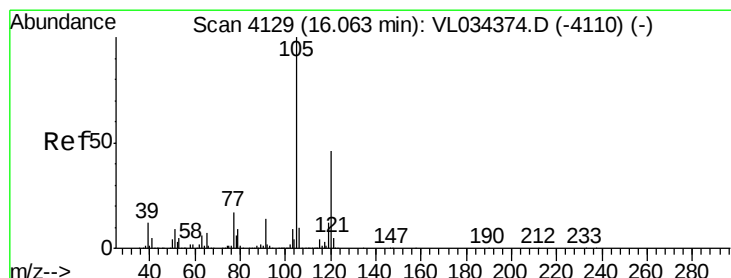
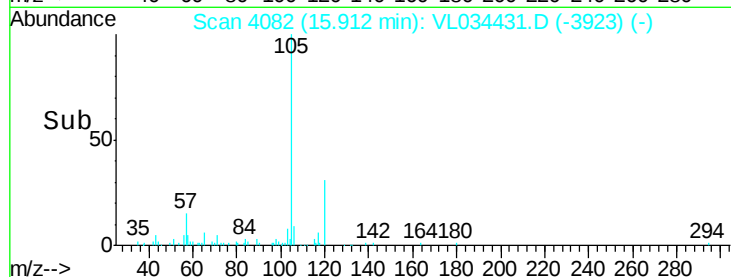
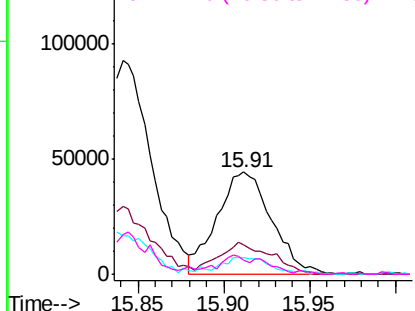


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 0.096 ppbv

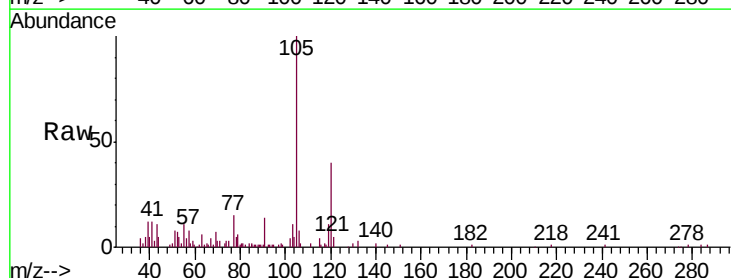
RT: 16.08 min Scan# 4133

Delta R.T. 0.01 min

Lab File: VL034431.D

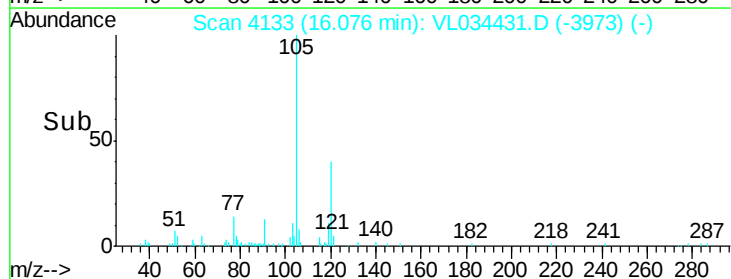
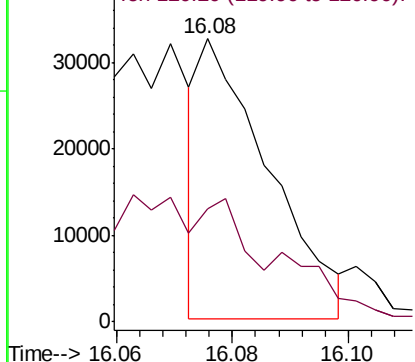
Acq: 2 Dec 2019 18:12

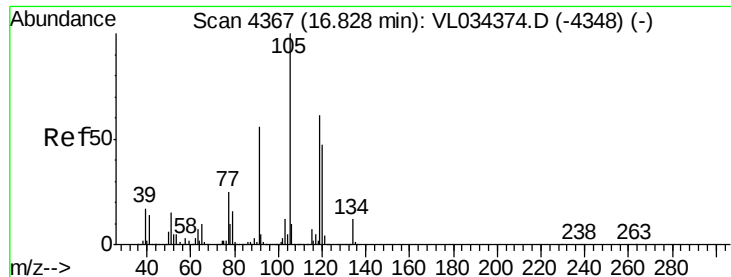
Tgt Ion:	105	Resp:	26930
Ion	Ratio	Lower	Upper
105	100		
120	38.0	37.1	55.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#74

1,2,4-Trimethylbenzene

Concen: 0.543 ppbv

RT: 16.84 min Scan# 4370

Delta R.T. 0.01 min

Lab File: VL034431.D

Acq: 2 Dec 2019 18:12

Instrument :

MSVOA_L

ClientSampleId :

SV-3

Tgt Ion:105 Resp: 161991

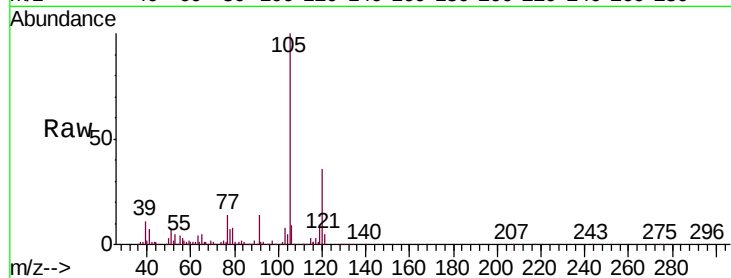
Ion Ratio Lower Upper

105 100

120 36.2 37.4 56.0#

91 13.5 46.3 69.5#

77 14.1 20.6 30.8#

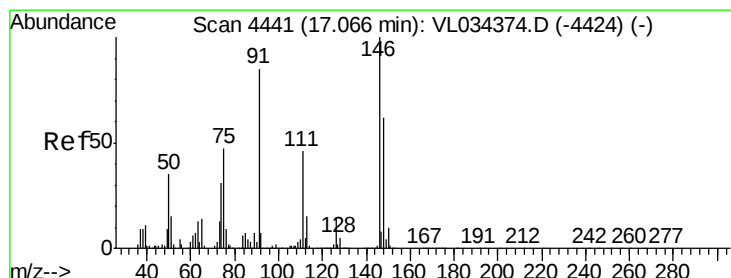
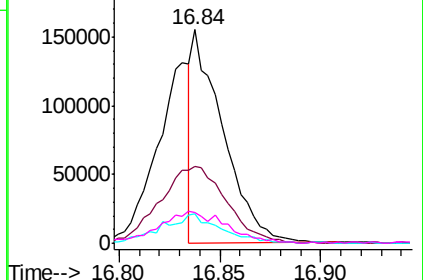
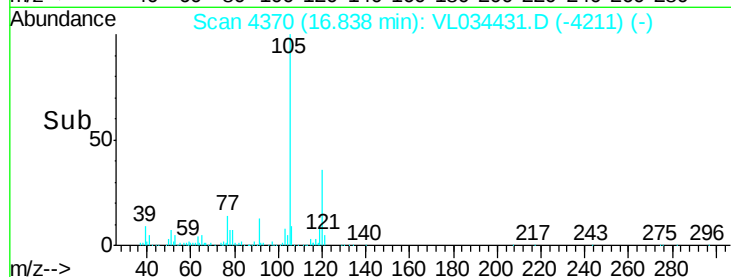


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#75

1,3-Dichlorobenzene

Concen: 0.529 ppbv

RT: 17.08 min Scan# 4444

Delta R.T. 0.01 min

Lab File: VL034431.D

Acq: 2 Dec 2019 18:12

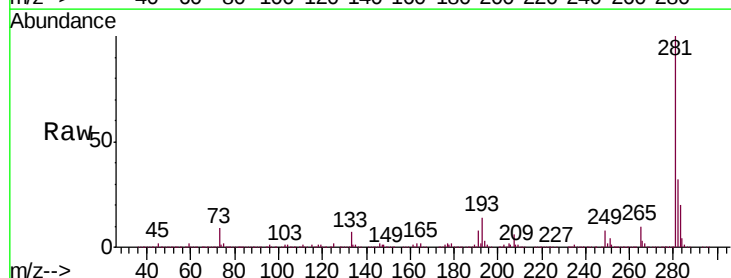
Tgt Ion:146 Resp: 90548

Ion Ratio Lower Upper

146 100

111 148.7 24.4 73.4#

148 107.2 32.4 97.0#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

